CLIMATE CHANGE: Greenhouse Effect Or Ice Age?

AMERICAN SEASO IN CARREST TIME TO A SAFER LIVING AMERICAN SEASO IN CARREST TIME TO A SAFER LIVING AMERICAN SEASO IN CARREST TIME TO A SAFER LIVING GUIDE

STRIKER: American Made 12 Gauge Firepower



LOW-COST UNDERGROUND SHELTER ROBOTS GO TO WAR



This Knife, Other Great Prizes

"CUT YOURSELF IN ON A GOOD DEAL"

GERBER

| 77 | | |
|------------------------|------------|------------|
| | Retail | Your Price |
| "Aussie" Bowie NEW | \$125.00 | \$89.95 |
| Predator CS "EXCLUS | – | \$149.95 |
| BMF with teeth | \$180.00 | \$129.95 |
| BMF w/o teeth | \$168.00 | \$119.95 |
| LMF with teeth | \$140.00 | \$99.95 |
| LMF w/o teeth | \$129.00 | \$91.95 |
| LMF M-3 Tactical | \$152.00 | \$109.95 |
| Parabellum Folders | * | * |
| w/ swivel sheath | \$79.00 | \$59.95 |
| w/ plain sheath | \$62.00 | \$46.95 |
| Mark 2 CS "EXCLUSIV | T | \$79.95 |
| Mark 2 | \$73.00 | \$54.95 |
| Guardian 2 Camo | \$84.00 | \$62.95 |
| | | |
| Guardian 1 "EXCLUSI" | | \$49.95 |
| Command 1 | \$58.00 | \$43.95 |
| Mark 1 | \$62.00 | \$46.95 |
| Guardian Camo | \$62.00 | \$46.95 |
| Guardian | \$51.00 | \$38.95 |
| Shoulder harness for b | oot knives | \$8.95 |
| LST Folder | \$24.00 | \$17.95 |
| UltraLight LST | \$19.00 | \$13.95 |
| | | |

VICTORINOX

| | Retail | Your Price |
|---------------------|----------|------------|
| S.O.S. w/SwissChamp | \$138.00 | \$89.95 |
| SwissChamp | \$90.00 | \$59.95 |
| Champion | \$71.00 | \$49.95 |
| Craftsman | \$69.00 | \$48.95 |
| Super Tinker | \$36.00 | \$24.95 |
| Spartan | \$23.00 | \$15.95 |
| Classic | \$18.00 | \$12.95 |
| | | |

BUCK

| | Retail | Your Price |
|------------------------|----------|------------|
| M-9 Bayonet-issue | \$164.95 | \$99.95 |
| M-9 Bayonet-parkerized | \$164.95 | \$99.95 |
| XLTI Titanium w/sheath | \$75.00 | \$49.95 |
| Kalinga | \$112.95 | \$84.95 |
| Akonua | \$99.95 | \$73.95 |
| General. | \$54.95 | \$41.95 |
| Special | \$49.95 | \$36.95 |
| Pathfinder | \$41.95 | \$31.95 |
| | | |

CRAWFORD

| Survival Staff | Retail \$199.95 | Your Price \$159.95 |
|--------------------|--------------------|------------------------|
| Devil's Darts | | |
| Arm Model w/sheath | \$69.00 | \$59.95 |
| Leg Model w/sheath | \$79.00 | \$69.95 |

WESTERN

| | Retail | Your Price |
|----------------|---------|------------|
| Bowie w/sheath | \$86.95 | \$64.95 |
| Bowie w/plaque | \$86.95 | \$64.95 |

SPYDERCO

| | Retail | Your Price |
|------------------------|---------|------------|
| Police | \$79.95 | \$59.95 |
| Yellowhorse Customized | Police | \$199.95 |
| Diver **NEW** | \$87.95 | \$64.95 |
| Mariner | \$69.95 | \$52.95 |
| Harpy | \$58.95 | \$44.95 |
| Worker | \$58.95 | \$44.95 |
| Hunter | \$58.95 | \$44.95 |
| Standard | \$41.95 | \$31.95 |
| CoPilot | \$46.95 | \$35.95 |
| Necklace Knife w/chain | \$40.00 | \$29.95 |
| Spyderkey-Wood | \$45.00 | \$31.95 |
| Spyderkey-Pearl | \$55.00 | \$39.95 |
| Tri-angle Sharpmakers | | |
| Standard | \$39.95 | \$29.95 |
| Deluxe | \$71.95 | \$53.95 |
| | | |

S.O.G.

| | Retail | Your Price |
|--------------------|----------|------------|
| SOG Bowie | \$210.00 | \$169.00 |
| Trident | \$210.00 | \$169.00 |
| Tigershark **NEW** | \$139.95 | \$114.95 |
| Tomcat Folder | \$79.95 | \$67.95 |

LANSKY

| | Retail | Your Price |
|------------------------|---------|------------|
| Standard Kit (3 stone) | \$33.00 | \$24.95 |
| Deluxe Kit (5 stone) | \$48.00 | \$36.95 |
| Diamond Kit (4 stone) | \$90.00 | \$49.95 |
| "C" Clamp Mount | \$20.00 | \$13.95 |

D.M.T.

| | Retail | Your Price |
|--------------------------|------------|------------|
| 6" Diamond stone * | \$48.00 | \$34.95 |
| 8" Diamond stone * | \$81.95 | \$57.95 |
| 12" Diamond stone * | \$119.95 | \$83.95 |
| *specify Fine, Coarse or | Extra Coar | se Grit. |

TIMBERLINE

| | ice |
|-----------------|-----------------|
| \$195.00 \$169. | .95 |
| \$195.00 \$169. | .95 |
| \$390.00 \$329. | .95 |
| ֡ | \$195.00 \$169. |

KA-BAR

| | Retail | Your Price |
|----------------------|---------|------------|
| Ka-Bar USMC WW2 | \$40.00 | \$29.95 |
| Ka-Bar Outdoor Diner | \$25.00 | \$18.95 |
| | | |

COLD STEEL

| | Retail | Your Price |
|----------------------|----------|------------|
| Trailmaster-Kraton | \$175.00 | CALL |
| Trailmaster-Stag | \$250.00 | \$189.95 |
| A.T.C. Kukri **NEW** | \$250.00 | CALL |
| Emperor Collection | \$700.00 | \$550.00 |
| Imperial Tanto | \$595.00 | \$449.95 |
| Magnum Tanto | \$200.00 | \$149.95 |
| Master Tanto | \$189.95 | \$142.95 |
| Original Tanto | \$139.95 | \$99.95 |
| Outdoorsman | \$139.95 | \$99.95 |
| Recon Tanto **SALE** | \$89.95 | \$54.95 |
| Mini Tanto | \$99.95 | \$74.95 |
| Urban Pal | \$29.95 | \$22.95 |
| Urban Skinner | \$54.95 | \$41.95 |
| Terminator | \$74.95 | \$56.95 |
| Shinobu-Large | \$79.95 | \$59.95 |
| Shinobu-Medium | \$59.95 | \$44.95 |
| Shinobu-Small | \$24.95 | \$14.95 |
| Clipmate-Large | \$79.95 | \$59.95 |
| Clipmate-Medium | \$59.95 | \$44.95 |
| Clipmate-Small | \$19.95 | \$14.95 |

EK

| EK S/F | Retail \$99.95 | Your Price \$79.50 |
|-----------------|-------------------|-----------------------|
| EK SWAT **NEW** | \$99.95 | \$79.50 |
| EK M-4 | \$139.95 | \$104.50 |

CHRIS REEVE

| | Retail | Your Price |
|--------------------|----------|------------|
| Jereboam 1 | \$285.00 | \$209.95 |
| Jereboam 2 | \$285.00 | \$209.95 |
| Shadow 1 (aka J 3) | \$285.00 | \$209.95 |
| Mark 5 | \$225.00 | \$169.95 |
| Aviator | \$170.00 | \$129.95 |
| Mountaineer | \$160.00 | \$119.95 |

BENCHMADE

| | Hetail | Your Price |
|--------------------|----------|------------|
| Bushmaster | \$69.95 | \$49.95 |
| Bali-Song Video | | \$29.95 |
| 3" WeeHawk USA #30 | \$59.95 | \$47.95 |
| 3" WeeHawk USA #35 | \$74.95 | \$59.95 |
| 4" WeeHawk Custom | \$325.00 | \$275.00 |
| 4" Bowie Custom | \$325.00 | \$275.00 |
| | | |

LEATHERMAN

| Leatherman Tools - Made in USA | Your Price |
|--------------------------------|------------|
| Regular-Satin | \$32.95 |
| w/Capcrimper-Satin | \$46.95 |
| w/Capcrimper-Black | \$49.95 |

Cutlery Shoppe

Send to: CUTLERY SHOPPE Dept ASG, 548 AS ASS STORY TO BOTO 83766



Get our full color catalog, with great deals on the top knife brands. Just send \$1 or call 208-376-0430 to get your copy, PLEASE, do not call the "800" number as we reserve these lines for customers placing orders...

TOLL FREE ORDER LINE:

1-800-231-1272

INFORMATION LINE: 1-208-376-0430

ADD SHIPPING: \$5 to 48 states--\$7 APO & FPO-- \$8 for C.O.D. 48 states only-- \$10 Alaska, Hawaii & Canada. Foreign orders (excluding Canada), please write for shipping costs. PAYMENT: We accept VISA, MASTERCARD, C.O.D. (cash only), Money orders & checks (checks allow 21 days to clear).

FAX Machine Orders: 1-208-376-7608

GET THE EDGE! GET IT NOW... FREE.

Buy any one of these
Fully Automatic world class
knives and get the
Model #434
Full-Auto Minuteman
ABSOLUTELY FREE

Swift, Silent, and Ready When You Are

Model = 817

Model #702

Genuine, Automatic And Completely Finished

Sold in Logal Kit Form*

Model 702 Full Auto* Panther

Heavy duty and built to stay that way, the Model 702 utilizes a cam-spring activator within its large contoured grip. Touch the button and it delivers a finely honed blade of mil-spec stainless steel. Instantly retractable. A full 9 inches.

\$23.95 Now thru December sale priced at \$14.95

Model #120 Full Auto* The Sicilian

Beautifully Handcrafted in Italy, the classic lines of the Model 120 have earned a reputation from the hills of Corsica to the asphalt jungles of New York. This truly collectible knife features Swiss steel guards, full brass liners, deep-swirl pearlescent grips. Touch the button and out arcs a flashing, sleek blade of heavy gauge razor sharp Chromex steel. 8%"

Supplies guaranteed only thru March '89 . \$49.95

Model #860 Full Auto* Stealth

Midnight black, High Impact Mil-Spec ABS Resin handle provides light-weight yet heavy-duty action. Touch the button and a sleek blade of Vanadium Stainless Steel leaps out, ready for any situation. Front opening and instantly Retractable. 81/2"

\$28.35 On sale thru December only. . \$14.95

Model #817 Full Auto* Lever Hunter

The gleaming brass and polished rosewood handle conceals a spring loaded blade of Rockwell hardened brushed stainless steel. Touch the lever, and the blade arcs out with a flash, and locks into eight inches of elegant and rugged knife. \$39.95

\$29.55 On sale thru December only\$19.95

*Attn. Collectors and Sportsmen: Though legal in parts form, in certain areas the completion of these kits may violate certain laws. Please check your area before ordering or assembling, as compliance with any such law is the purchaser's responsibility.

Model #120

EDGE COMPANY
KNIVES, THE BEST OF
YESTERDAY AND TOMORROW.

Model #860



The Minuteman Model #434 Full Auto* Now Free.

The unique, classic design of the Minuteman Full Auto traces its history to Germany, where it was first seen in 1895. Handforged of European steel and Mexican Rosewood, the precise full-auto action snaps out a clip point blade of polished and beveled 440 stainless steel. Over 8" of serious knife.

Normally \$29.95 Now yours FREE with any of the above!

Also Free! The New 1989 Edge Company Catalog...
125 incredible knives in blazing color.
Call Toll Free 1-800-445-1021
EDGE HOTLINE SEVEN DAYS A WEEK.



TO ORDER CALL TOLL-FREE 1-800-445-1021 OR SEND TO:

| | 0530 - 800-44 | 5-1021 | N-XI |
|-----------------------------|-------------------------|--------------|---------|
| Gentlemen | , please RUS | H the follow | ving: |
| (check proj | per boxes) | | |
| □Model 702 | □Model 120 | Model 860 | □Model |
| Qty | Qty | Qty | Qty |
| □Yes, please 434 Minutem | also rush my an. | FREE Full A | uto Mod |
| Add \$1.50 Per | Kit Shipping a | nd Handling | |
| | oney order Enc | | |
| | 0 | | |
| | | | Date |
| | | | |
| | | | |
| | | | |

to receive 15% discount.

EDGE COMPANY KNIVES ARE GUARANTEED FOR LIFE

VOLUME 11 NUMBER 1 THE MAGAZINE FOR SAFER LIVING

COVER:

The American-made Striker semiautomatic 12-shot 12 gauge shotgun is an improved, magnum-firing version of the original South African shotgun. See page 36. Inset: Win this SOG Specialties Tigershark bowie, other great prizes. See pages 52-53 (Photos by Scott Stoddard).

Survival Weapons

| Mitchell Arms .308 AK-47 | .24 |
|----------------------------|------|
| Striker 12 Gauge, 12 Shots | .36 |
| Avenger Crossbow | .46 |
| KG-22 Camo Carbine | . 56 |

Survival Gear

| Machax: Machete/Ax | | | | | | | | | | | | | | 34 | 4 |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---|
| Spyderco Diver Knife | | | | | | | | | | | | | | 62 | 2 |

Health and Food

| Stress Can Kill | Yo | u | | | | | | | | | | | | | | | . 2 | 0 | |
|-----------------|----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|---|--|
| Food Insurance | | | | | | | | | | | | | | | | | . 5 | 0 | |

Survival Living and Environments

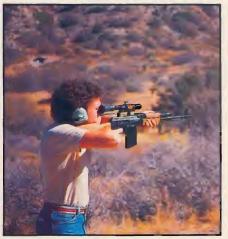
| Climate Change26 |
|--------------------------------|
| Low Cost Underground Shelter28 |
| The Land of the Havasupai54 |
| Robots Go to War76 |

Survival How-To

| Surviving Abroad | | | | | | | | 10 | 6 |
|--------------------------------|--|--|--|--|--|--|--|----|---|
| Combat Karate Encounters | | | | | | | | 3 | 2 |
| High-Tech Layering | | | | | | | | 4 | 4 |
| Raising and Butchering Rabbits | | | | | | | | 7 | 2 |

Departments

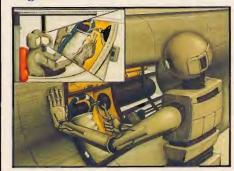
| To the Point6 | 1989 Giveaway No. 152 |
|------------------|--------------------------|
| Survival Line8 | Survivalist Directory 68 |
| Books / Videos10 | Classified Ads70 |
| New Products12 | Mail Call |



Page 24



Page 26



Page 76

AMERICAN SURVIVAL GUIDE (ISSN 0745-1113) is published monthly by McMullen Publishing, Inc., 2145 West La Palma Avenue, Anaheim, CA 92801-1785, Phone (714) 635-9040. Contents copyright ©1989 and all rights reserved by McMullen Publishing, Inc. This magazine is purchased by the buyer with the understanding that the information presented is from various sources from which there can be no warranty or responsibility by McMullen Publishing, Inc., or the publisher as to legality, completeness and accuracy. Second class postage paid at Anaheim, California and at additional mailing offices. POSTMASTER: Send address change to American Survival Guide, P.O. Box 15690, Santa Ana, CA 92705-0690.

SUBSCRIPTIONS. U.S. and U.S. possessions \$21,95 for 12 issues; \$38,95 for 24 issues. All other countries, \$30,95 for 12 issues; \$56,95 for 24 issues. Payment in U.S. currency only. American Survival Guide Subscription Department, McMullen Publishing, PO. Box 15690, Santa Ana, CA 92705-0690. Allow 8-10 weeks for delivery of first issue.

EDITORIAL CONTRIBUTIONS. Welcomed but editors recommend that contributors query first. Contribution must be accompanied by return postage and we assume no responsibility for loss or damage thereto. Manuscripts must be typewritten on white paper, and all photographs must be accompanied by captions. Photo model releases required on all persons in photos. American Survival Guide reserves the right to set material at its discretion, and we reserve the right to edit material to meet our requirements. Upon publication, payment will be made at our current rate, and that said payment will cover author's and contributor's rights of the contribution. Contributor's act of mailing contribution shall constitute an express warranty that the material is original and no infringement on the rights of others. Mail contributions to: American Survival Guide Magazine, 2145 W. La Palma Ave., Anaheim, CA 92801-1785.

ADVERTISING INFORMATION. Please call American Survival Guide Advertising Department, (714) 635-9040. McMullen Publishing also publishes: Street Rodder, Mustang Illustrated, All CHEVY, Kit Car Illustrated, Truckin', VW Trends, Splash, 4WD Action, Popular Cars, Handgun Illustrated, Knives Illustrated and other specialty publications.

PALADIN .:

KICKASS!

More Mayhem From the Master of Malice

by George Hayduke

Just when you thought it was safe to turn the other cheek, Hayduke and his malicious band of protégés return with their own twisted version of the Golden Rule: Do unto others before they do unto you! If you are a peace-loving but fed-up citizen who's being hassled by one of a multitude of bullies in today's mean world, then this latest revenge-filled opus will surely satisfy your thirst for vengeance. Armed with this all-new array of deviously clever payback schemes, you will be able to dish out mayhem like the master himself. Whether you have to deal with obnoxious neighbors, a heartless boss or some other miserable jerk in your life, you will be able to find a tale or technique in this book that will leave him or her rolling in agony-and you rolling with laughter. Offered in the spirit of good, clean fun, Kickass! is for entertainment purposes only. 51/2 x 81/2, hardcover, \$16.95 196 pp



INCENDIARIES **Advanced Improvised Explosives**

by Seymour Lecker Pound for pound, incendiaries can do more damage than explosives, due to their potential for major destruction from minor effort. This book details the use of widely used industrial chemicals that burn with intense heat, covering oxidizers and ignition devices, safety and health hazards. For information only! 5% 81/2, softcover, 64pp. illus.



THE RUGER .22 AUTOMATIC PISTOL Standard/Mark I/Mark II Series

by Duncan Long Here is the definitive book about the pistol that has served more than a million owners so well. Exploded diagrams show how to field-strip and reassemble with a minimum of fuss, and photos illustrate varia-tions, modifications and accessories for one of the most popular .22 automatics ever made, 5% x 8% softcover, photos, illus., 168 pp

\$12.00

AK47 The Complete Kalashnikov Family of Assault Rifles DUNCAN LONG

AK47: The Complete Kalashnikov Family of Assault Rifles

by Duncan Long The Soviet AK47/AKM assault rifle is tough and dependable, and has spawned many spinoffs worldwide These rifles are now available in the U.S., but solid information on them is scarce. Learn about specs, ammo and more-find out why the AK47 is the world's most widely used gun. 5½ x 8½, softcover, photos, illus., 192 pp. \$14.00 illus., 192 pp.

1989 MILITARY HISTORY CALENDAR

by Raymond R. Lyman Who was the first American commander to strike back in the aftermath of Pearl Harbor? How did Herman Goering help the British RAF win the Battle of Britain? Where were the first tanks used in battle? The answers can be found in the 1989 Military History Calendar. This year's edition is the best yet, with hundreds of fascinating events from the great and small wars that influenced the history of our time, More than 40 photographs reveal the face of war in this century. than 40 photographs reveal the face of War II, the year to Make 1989, the 50th anniversary of World War II, the year to learn the facts 12 x 13 photos.



U.S. ARMY SPECIAL FORCES A-TEAM VIETNAM COMBAT MANUAL

This is the real thing, a reprint of the A Detachment Handbook issued to all Special Forces A-Teams during the Vietnam War. Everything from camp construction to interrogation procedures to psyops is covered. A must for collectors of military and Vietnam memorabilia. 81/2 x 11, softcover, illus., 296 pp.

SPECIAL FORCES COMBAT FIRING TECHNIBUES

FRANK A MOYER and ROBERT J SCROGGIE

SPECIAL FORCES COMBAT FIRING TECHNIQUES

by Frank A. Moyer and Robert J. Scroggie The Uzi, Finnish Soumi and Soviet AKM assault rifle are among the more than 60 American and foreign firearms tested in this U.S. Army study. Discover the most effective positions, best response maneuvers and best kill-hit areas, illustrated by dozens of photos in this comprehensive manual. 81/2 x 11, hardcov



GET EVEN

The Complete Book of Dirty Tricks A hilarious overview of the methods people use to get even with big business, government and enemies More sophisticated and involved tricks are included, such as ones devised by CIA and Mafia members and political dirty tricksters. Over 80 sections present dirty tricks ranging from the simple to the elaborate. For entertainment only! 51/2 x 81/2, hardcover, 192 pp. \$16.95

THE 1989 CALENDAR OF CREATIVE REVENGE ... featuring the awesome, hysterical, and ridiculous humor of that Master of Mayhem, George Hayduke

Make a date to get even with that nasty so-and-so who's done you wrong. Pencil in your revenge plots on the firstever Paladin "get even" calendar ... you know what George Hayduke says: "Thou shalt bide thy time before activating a revenge plot!" Thirteen months of madness pack this guide to a 1989 full of Haydukery, complete with hilarious color illustrations and descriptions of George's favorite stunts, plus a listing of the Eleven Commandments of Revenge (lest ye forget!). A great holiday stocking stuffer for the Hayduke fans on your list! 12 x 13, color illus



NEW I.D. IN AMERICA

photos, 120 pp.

Want one more chance at life—with a "clean slate?" Trade in your old identity for a new start. Here is a step-by-step guide to creating a totally new you—with a birth certificate, passport, driver's license. Social Security number—all you need for breaking with your past. 51/2 x 81/2, softcover, illus., 120 pp.

\$15.00

\$19.95



IMPROVISED EXPLOSIVES How to Make Your Own

by Seymour Lecker From a former top explosives expert with the Israeli Army comes a manual that presents ten simple yet powerful formulas for explosives and incendiaries that give the basis for making bombs, booby traps and mines. Learn to obtain or make the needed chemicals or get substiutes. For information only 5 1/2 x 8 1/2 softcover, illus 80 pp \$10.00



RAGNAR'S GUIDE TO HOME AND RECREATIONAL USE OF HIGH **EXPLOSIVES**

by Ragnar Benson Who else but Uncle Ragnar could write this down-home guide? How to obtain commercial high explosives, safely storing and transporting them, detonation techniques improvised explosives and more are woven in with tales of Ragnar's explosive adventures. For information purposes only. 51/2 x 81/2, softcover illus. 120 pp



HARD-CORE POACHING

by Ragnar Benson
Two-way shortwave radios, subcalber conversions, laser sights and night-vision devices-the arsenal of the modern hard-core poacher is getting more high tech all the time. Ragnar keeps you up-to-date on what poachers are using to outfox the competition, and throws in some good old-fashioned common sense. For information purposes only! 51/2 x 81/2, softcover, photos, 152 pp

OTHER FASCINATING TITLES

| U.S. ARMY SPECIAL | FIREARMS FOR SURVIVAL \$16.95 |
|--------------------------------|-------------------------------|
| FORCES MEDICAL | STURM, RUGER 10/22 RIFLE |
| HANDBOOK \$19.95 | AND .44 MAGNUM |
| MAKE MY DAY! HAYDUKE'S BEST | CARBINE \$10.00 |
| REVENGE TECHNIQUES FOR | HOW TO GET ANYTHING ON |
| THE PUNKS IN YOUR LIFE \$16.95 | ANYBODY \$30.00 |
| IMPROVISED RADIO DETONATION | FUR, FOOD & SURVIVAL\$14.95 |
| TECHNIQUES\$10.00 | MAKE 'EM PAY! ULTIMATE |
| THE LEWIS GUN \$25.00 | REVENGE TECHNIQUES FROM THE |
| IAIDO - THE WAY OF | MASTER TRICKSTER \$16.95 |
| THE SWORD \$12.00 | MOST DANGEROUS GAME: |
| HOME WORKSHOP SILENCERS | ADVANCED MANTRAPPING |
| VOL. I \$12.00 | TECHNIQUES \$12.00 |
| RUGER 1022 EXOTIC WEAPONS | SCREW UNTO OTHERS: REVENGE |
| SYSTEM \$15.00 | TACTICS FOR ALL |
| SURVIVAL RETREAT \$ 8.00 | OCCASIONS |
| MONEY-BACK GUARANTEE - | - DEALER INQUIRIES INVITED |

PALADIN PRESS • P.O. BOX 1307 • BOULDER, CO 80306 • (303) 443-7250

| P.O. BO BOULD | N PRESS 0X 1307- 9A ER, CO 80306 3031 443-7250 | 1-800 day, 7 but | FREE for credit card orders: -642-8300, ext. 24. Call 24 hours a 7 days a week. Call from any state Alaska. Send \$1.00 for 50-page MLOG of 300 titles (free with order.) |
|-----------------------|--|------------------------|---|
| Please send me the fo | ., | | |
| | | | |
| Payment: Check | or Money Order, 🔲 V | 'ISA, □ MasterCa | rd. |
| Card No. | | Exp | SUBTOTAL |
| | | | Please include |
| ADDRESS | | | \$3.50 postage and handling |
| CITY | STATE | ZIP | TOTAL |



EDITORIAL

PUBLISHER Tom McMullen

EDITORIAL DIRECTOR Bob Clark

> EDITOR Jim Benson

ASSOCIATE EDITOR Scott Stoddard

CONTRIBUTORS

Richard Bocklet Geeta Dardick Becky Gillette John McSweeney Michael Pietrantoni Charles W. Sasser Douglas Stephens Bill Volkart

PHOTOGRAPHIC SERVICES

Don Palmer

GRAPHICS

DESIGN DIRECTOR G. Wm. Tietgen

GRAPHICS DESIGNERS

Bradley Stoddard Marc Block Rob Swarbrick

TYPESETTERS

Lori Christianson Virginia Roundy

ADVERTISING

ADVERTISING SALES
MANAGER
Bruce Bogart

ADVERTISING SALES REPRESENTATIVES

John Nething Greg Gill Greg Middlesworth Arlan Pfohl

ADVERTISING COORDINATOR
Janeen Webb

McMULLEN PUBLISHING, INC.

CHAIRMAN Thomas M. McMullen

> PRESIDENT Kenneth N. Yee

TO THE POINT

No apologies for being a survivalist...

Y EARS ago when I started working on this magazine, and for some time thereafter, I was self-conscious about admitting what my job was to people I met. I'd always try to explain my work in an apologetic way, hoping to win over the disapproving types.

The words "survivalism" and "survivalist" are dirty words to some people. They equate these terms with "extremist," "criminal," "crazy." But these people are misguided, prejudiced or ignorant. They don't know what survivalism really is.

Attempts by some in the media to portray all survivalists in a negative light angers me, although I realize there exist individuals and groups in society whom most of us would regard as extremist that call themselves survivalists. Unfortunately, these are the "survivalists" who get all the publicity.

When I took the job some years ago as associate editor of ASG I came from a background of newspaper reporting. I was not familiar with survivalism but I had been around guns much of my life. As a boy I had often gone shooting with my brothers and father and I possessed various small caliber guns. All my life my father has kept a revolver in his night stand for protection. My father is a survivalist, though he wouldn't say he is.

Working for ASG, I would occasionally be treated rudely or ignored by people on the telephone when I made calls to gather information for articles I was writing and so forth. I was struck by the hostile attitude of some people when I identified myself and the magazine. Fortunately, this type of reaction was rare, but it happened enough for me to realize that there are people out there who are narrow minded and prejudiced about survivalists.

Of course we on ASG use the term "survivalist" simply as a convenient way of categorizing the interests of our readers and people in general who study survival subjects and engage in survival-related activities. "Survivalist" is just a term to describe a way of

thinking, a mind-set that is oriented toward the fundamental human instinct for survival. This term covers a broad spectrum of people who share an interest in self sufficiency and self preservation.

Who are these people? Who are the readers of ASG?

Well, let's take as an example, the results of a computer analysis we did of approximately 1,000 readers who entered our 1988 Giveaway No. 2 contest. These were people who listed their occupations on their entry coupons. We use the information provided on the coupons to look at the background of readers. Here's what we found:

Represented were readers from every state in the nation, the District of Columbia and Puerto Rico, Average age was 36.27 years old. The occupational groups listed included carpenters, chemists, construction workers, clerks, computers operators/programmers, cooks, corrections officers, disabled veterans, emergency medical technicians, electricians, engineers, factory workers, farmers, fire fighters, investigators, laborers, machinists, maintenance workers, managers, mechanics, active duty military personnel, ministers, nuclear plant workers, painters, paramedics, physicians, police officers and police detectives, postal workers, retired people and especially retired military personnel, nurses, salesmen, security guards, self employed, students, teachers, technicians, welders, writers.

It's obvious that our readers come from a cross section of American society and represent the mainstream of society. Recognizing this, I have long since stopped apologizing for what I do when I meet people, they inquire about my work and, sometimes, I detect disapproval.

I'm not concerned any more about what narrow-minded, ignorant or just plain stupid individuals think of me or the magazine. I like what I do and I'm proud to be a survivalist. There'll be no more apologizing to anyone — *Jim Benson*.

- SAVE AT SIERRA — AND SPEND THE DIFFERENCE SIZZLING SPECIALS

SPECIALS

G.I. LANTERN MANTLES - 2 extra heavy duty mantles that last longer than civilian models .75 per 2 mantles

LC-2 LOAD CARRYING STRAP - od nylon webbing strap to secure loads on the Alice Pack. Great for Back Packers & cycle riders, tension buckle keeps loads secure \$3.50 2/\$6.00

LC-2 PACK FRAME CARGO SHELF - OD metal shelf for Military Alice Packs to

POLAR SHIELD SURVIVAL BLANKET - 84"X54" piece of re-flective mylar, reflects 90% of body heat. The blanket weighs less than 2 ounces and can be carried in a shirt pocket. Can be used as a giant reflector. \$3.50 2/\$6.00

LUBRICATING Oil: General purpose, light, 4 oz. metal can. Current issue. \$1.25 GENERAL PURPOSE SLING, HEAVY DUTY - 21/2 inch wide adjustable sling with a heavy duty snap hook on either end for heavy loads, very stout construction. \$4.50 CYLUME LIGHT STICK - 12 hour instant light, wind proof & flame proof.

Assorted colors. \$1.50 each not \$2.50

"EARTH QUAKE SPECIAL" 5 QUART COLLAPSIBLE WATER BLADDER - 6 mill heavy vinyl mylar, with finger tab to dispense fluids. New! \$2.50 5/810.00

G.I. MACHETE SET: - 1987 contract vinyl acetate wear & weather resistant plastic sheath with a built in sharpener, drain holes and belt swivel. The machete is the standard issue for 40 years. New as issued. complete set \$21.00

> seperately: sheath \$10.00 machete \$12.00

ISRAELIARMY ISSUE M-16 MAGAZINE CLIP CONNECTOR - Holds 2 M-1630 round magazines side by side for instant use. Very easy & simple to use. 60 rounds at

NAVY STROBE LIGHT - Current issue strobe light with a visibility rating of 8 miles at 600 feet. Weather resistant orange plastic with a clear lexan lense. The unit uses D cell alkaline batteries. New in box. \$20.00

VIET NAM ISSUE M-16 BIPOD/M-16 CLEANING SET - Rare issue, complete M-16 cleaning kit plus M-16 bipod & bipod carrier. All components new \$25.00 VIET NAM ISSUE BIPOD CASE - As described above. New & rarel \$6.00

ISRAELI GAS MASKS, NBC RATED - In use by Israeli Combat Troops, 1 size fits all due to an excellent & unique suspension system. New, unissued condition.

1 Mask, 1 Filter \$7.95 1 Mask, 1 Filter, 1 Replacement Filter \$13.25

SIZZLING SPECIAL

1 Mask, 1 Filter, 1 Replacement Filter & 1 New Canvas Gas Mask Bag \$17.75 Replacement Filters. New condition! \$6.00 each

SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL M17A1 GAS MASK BAG - Complete with all straps and hardware. New! \$5.00 SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL

G.I. MANUAL EXCLUSIVES

"INFANTRYMAN FIGHTING POSITIONS" - 1981, A very informative manual on how to prepare foxholes, bunkers & fighting positions. The manual also covers in good detail site camouflage, layout and fire zones. Never before released \$2.50

"MAP READING & LAND NAVIGATION" - FM 21-26 1987. The most current & up to date manual on land navigation & compass use. A very complete manual with pictures diagrams & actual map exercises. You will not get lost with this manual!

"SPECIAL FORCES SNIPER GUIDE/LOG BOOK" - The definitive SPECIAL FORCES text on sniping. Covered in good detail are subjects such as human targets, target interdiction, how to lead, angle of movement & correct holds at various angles & ranges. Heat mirage, wind, extreme ranges & light factors are also covered. The manual also features a very complete trajectory table for .308/7.62 NATO Ball & Match Ammo. Never before released to the public

"SPECIAL FORCES RECON MANUAL" - This manual was issued to incoming GREEN BERET personel bound for VIET NAM. The manual was compiled from combat experience in Viet Nam by MAC-SOG Teams. Subjects include AR-15 CAR tips & techniques, how to set & readapt LC-1 Web Gear, recon tips, how to infiltrate & extract patrols, P.O.W. handling. The section on patrolling is crammed with great tips for any one who hunts and backpacks. Illustrated, very rare and a "BIT OF HISTORY" and a wealth of information.

SIZZLING SPECIAL Both manuals \$10.00

See our complete catalog for many more G.I. MANUALS at great prices!

SEND ORDERS TO:

SIERRA SUPPLY

Dept. ASG P.O. Box 1390 Durango, Colorado 81302 Ring 303-259-1822





MORE SIZZLING MANUAL SPECIALS

M-16 TM TM 05538-c-23p - The USMC armorers manual on the M-16.41/A2 rifles All maint, assembley & disassembley techniques are illustrated and greatly simplified. A must for any M-18/AR-15 owner. Well illustrated and very complete.

\$11.95 .45 ACP TM 9-1005-211-12 1968 \$4.00 M-1 GARAND TM 9-1005-222-12 1989 84.00 M-18A2 OPERATORS MANUAL, USMC 1983 84.00

NUCLEAR, BIOLOGICAL AND CHEMICAL RECON. DECONTAMINATION OPERATIONS FM 3-87 1980 - Very current and up to date. Deals with the scenario of the aftermath of Nuclear strikes. Very informative & well illustrated. \$7.95

KNOWLEDGE IS POWER !!!!!

FIRST AID SUPPLIES - Act now as supplies are limited!

"POCKET MEDIC" TC 21-11 1977 - A pocket sized manual that covers all the basics that can save your life. Subjects include burns, shock, CPR, bleeding and many more health threatening situations. \$2.50 5/\$10.00

FIRST AID DRESSING, SMALL - A sealed battle dressing in a waxed container, highly absorbent cotton dressing with 2 streamers to apply directly to wound. \$2.25 FIRST AID DRESSING, MEDIUM-4"X5" field dressing with 2 streamers to directly apply to the wound. A very absorbent for large wounds. \$2.75

TRIANGLE DRESSING - Cotton muslin traingle, very handy for dressings, splints, applying dressings to wounds.

BANDAGE, GAUZE, ROLLS - Sealed, sterile gauze rolls, 2 inch by 6 yards.

SIZZLING SUPER SAVER \$.35 per roll

\$1.75

\$.59 at your local drug store....WHY PAY MORE?

SIZZLING SURPLUS SUPER SAVERS

G.I. DISPOSABLE EAR PLUGS: Yellow foam, designed to use and throw away. Provides great ear protection. 4 pr./\$1.00

G.I. TRIPLE FLANGE BUTYL RUBBER EAR PLUGS: Standard issue, current contract. Designed to be used over & over again. Provides excellent protection.

Earplugs only - no carriers \$1.25 per pair 3 pair \$3.00 (Specify Med., Large or X-Large plugs) New in the wrap.

WATER PURIFICATION TABLETS: 50 tablets per bottle, kills all water borne bugs. Used the world over. \$.75 per bottle

M-3 GREASE GUN MAGAZINE CARRIER: New, unissued condition, will carry 3 magazines TRIOXANE FUEL TABLETS: 3 full sized fuel bars per box, provides instant heat! A par-

tial bar will boil water in minutes! Not a dollar like the competition. \$.75 3 boxes \$2.00

G.I. CLEANING BRUSHES

.223/.22 cai. Bore Brush \$1.00 .223 Chamber Brush \$.100 \$.75 .45 ACP Bore Brush \$1.00

45 ACP CLEANING KIT, G.I.

1 Bore Brush, 1 Combination Tool, 1 Cleaning Rod

& 1 Bushing Wrench. All components new!

"JUST ARRIVED" SPECIALS

M-16 30 ROUND MAGAZINES: New issue \$5.00 .45 ACP G.I. MAGAZINES: New in wrap 4/820.00 G.I. 30 CALIBER CLEANING PATCHES: per 1000 AK 47 40 ROUND MAGAZINES: New condition \$23.00 2/844.00 AK 47 40 ROUND MAG SET: 3 Magazines with carrier. New Issue668.00

ORDERING INSTRUCTIONS

\$10.00 minimum order. CASHIER'S CHECKS & M.O. GET FIRST ATTENTION. PERSONAL & COMPANY CHECKS ARE HELD FOR 14 BANK WORKING DAYS UNTIL THE CHECK CLEARS THE BANK. MASTERCARD & VISA CREDIT CARDS GLADLY ACCEPTED. See the below shipping chart for the correct amount to send with your order. NO COO ORDERS ACCEPTED.

Orders from \$ 10.00 to \$ 25.00 add \$3.00 \$ 70.00 to \$100.00 add \$6.00 \$ 25.00 to \$ 40.00 add \$4.00 add \$4.00 \$ 100.00 to \$150.00 add \$7.00 add \$4.00 \$ 100.00 to \$150.00 add \$7.00 \$ 100.00 to \$150.00 add \$7.00 \$ 100.00 to \$150.00 add \$7.00 \$ 100.00 to \$100.00 to \$1

add \$2.00

Orders over \$150 sent post paid in cont. US only - actual order must exceed \$150 to qualify.

CANADIAN, HAWAIIAN & ALASKAN ORDERS add 25% to total order for shipping. If the specific shipping amount exceeds this amount you will be notified. ANY SHIP-PING CVERAGE SENT WILL BE REFUNDED.

THIS ADVERTISEMENT PERTAINS TO US & CANADIAN RESIDENTS ONLY.
ALL MERCHANDISE IS GUARANTEED 100%.
10 DAY RETURN POLICY, MERCHANDISE MUST BE IN SAME CONDITION AS IT WAS SENTOUT. THE CUSTOMER PAYS SHIPPING BACK UNLESS AN ERROR WAS MADE ORIGINALLY. IF AN ERROR WAS MADE SIERRA SUPPLY PAYS THE SHIPPING.

THIS ADVERTISEMENT SUPERCEDES ALL OTHER OFFERS, ADS, CATALOGS AND PREVIOUS OFFERS.
ALL MERCHANDISE SOLD ON A FIRST COME FIRST SERVED BASIS.

SEND \$1.00 FOR 1989 CATALOG - FULL OF GOOD BUYS & QUALITY MERCHANDISE

Survival Supplies



Water-One® Filter

White F

MANNY THE

Effectively Removes 99,9999% Giardia & Other Harmful Impurities

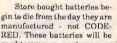
Having clean, bacteria free water is a must under all survival conditions, not to mention when backpacking or everyday use. Our Water-One portable water filter, filters down to .4 micron, which will remove giardia and all larger parisites that can make you equally as sick plus removes chemical contaminates. Easy to use and operates by hand or foot. Unit has a fil-tering capacity of 500 gallons and is back-flushable. Includes a test kit and nylon carring bag. Waranteed for 2 full years. Reg. \$79.95

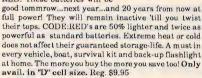
54⁹⁵ (3.50 S&H)

CODE:RED

Emergency Batteries Stores at 100% Power for

20 YEARS!

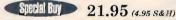




1 Twin-Pak 7.49 (2.75 S&H) 6 Twin-Paks 40.00 (3.50 S&H) 12 Twin-Paks 75.00 (4.75 S&H)

Isreali Simplex **NBC** Gas Mask Civilian / Military Issue

These are BRAND NEW 2nd genera tion gas masks that filter battle & riot gases, chemical agents and fallout. The sealed filters alone sell elsewhere for \$19.95 ea. Unit includes one mask and 3 NATO filters. Reg 35.95+



For Faster Delivery, Credit Card customers can order by phone: (213) 929-4705

Limited Offer - Order Now! 1989 Catalog \$2.00; FREE with order

| 1101 Norv | RO-PAK™ Survival Foods & 8 E. Rosecrans Av. #300A valk, CA 90650 | |
|--------------|--|-------|
| Qty | Selection | Price |
| | | |
| | | |
| | Shipping & Handling | |
| ☐ Mo | ney Order Check TOTAL | |
| | A MASTERCARD Expiration D | ate |
| Card N | lumber | |
| Signat | ure | |
| Name | | |
| | Address | |
| City | | ip |
| / | mation Phone # | 1 |

SURVIVAL LIN

Air Force GWEN system completion approved, university presidents call for common curriculum on disarmament studies, world famine feared if drought continues, AIDS among top killer diseases...

FTER a two year delay caused by environmental impact studies and lawsuits brought by anti-nuclear activists, the U.S. Air Force has approved the completion of a vital emergency communications network.

The network, known as the Ground Wave Emergency Network, GWEN, is a nationwide system of low power radio antennas and transmitters intended to insure that the National Command Authorities, NCA, will still be able to launch a retaliatory nuclear strike, even after a first strike on the U.S.

The GWEN system has been assailed by anti-nuclear groups who say that any preparations to "fight" a nuclear war makes one more likely to happen. During the presidential campaign Jimmy Carter's former defense secretary, James Schlesenger, sharply criticized Gov. Michael Dukakis' opposition to the system.

According to the Air Force the system should be completed by 1992 at a cost of about \$600 million.

Peace In Our Time - At a recent meeting in France the presidents of 45 universities from around the world adopted a resolution which called for the development of a common curriculum on disarmament studies.

The university presidents included representatives from universities in the U.S., Soviet Union, China, Japan, Europe, and the Middle East.

The resolution called for the creation of courses in conflict-resolution and disarmament studies, and their inclusion as required subject matter across a wide field of academic disciplines.

The group is scheduled to meet again in Tokyo next year to assess their progress.

The Next Drought - If 1989 sees a drought similar to the 1988 drought the effects on worldwide grain production and inventories could be catastrophic, so says the president of the Worldwatch Institute, economist Lester R. Brown.

According to Mr. Brown, if the 1989 U.S. grain harvest "were to be severly reduced by drought, exports would slow to a trickle." This would in turn cause prices to soar to a point that the most needy countries might be unable to purchase enough grain to feed their populations.

Both Mr. Brown and the U.S. Department of Agriculture have calculated that by the time the 1989 harvests are ready for distribution the world supply of grain will be down to a 54- to 62-day supply. This compares to an 89-day reserve of grain at the beginning of the 1988 harvests. Mr. Brown calls these amounts "little more than pipeline supplies" and sees the prospect of widespread famine should 1989 be another drought year.

Disease Tolls - For the first time AIDS has made the list of the top 15 killer diseases in the U.S. The National Center for Health Statistics said that in 1987 (the last full year for which statistics are available) some 13,280 people died from AIDS in the U.S. This moved AIDS into the 15th spot on the killer disease list, replacing birth defects. Some government estimates put the total number of AIDS infected people in the U.S. at 1.5 million.

The top 10 killer diseases in the U.S. and their annual death tolls are as follows: Heart disease - 762,000; Cancer - 477,000; Stroke - 149,000; Accidents - 95,000; Chronic Lung Disease -78,000; Pneumonia and Flu -70,000; Diabetes - 38,000; Suicide - 31,000; Chronic Liver Diseases - 26,000; Heart Attacts - 23,000. All told, 2.12 million people died in the U.S., and 3.82 million were born (a record) in 1987.

THE DUTCHMAN

MC/Visa & COD Call toll free, or use order form below

1-800-821-5157

BOMBER JACKET



you to tell it from the real thing. his is your chance to pick up the hottest look today at a very reasonable price. Check out these features heavy duty Brass zippers; horizontal (zippered) and vertical front pockets; zippered left sleeve utility pocket: heavy duty knit cuffs and waisthand: heavy weight pile collar; stylish epaulettes on each shoulder; inside storm flap for wind resistance; 100% nylon lining; 8-ounces polyester body fill for warmth that doesn't weigh you down. This is a jacket taking America by Storm...don't miss out. Order yours today for just \$46.00 plus \$3.00 shipping. Specify XS (30-32), S (34-36), M (38-40), L (42-44), XL (46) and XXL (48-50) and be sure to tell us BLACK or

NIGHT COMMAND



Analog/ Digital Combo

That's right, for only \$46.00 you can have this avaiotor/acer watch. It's finished in handsome gummetal olack with matching black stamless watch, because this as light of the stamler of

TEAR GAS

MACE®

Don't mistake MACE with lesser tear gas aerosols. Chemical MACE delivers a potent punch of highly purified CN tear gas to incapacitate an assailant allowing you plenty of time to get away. MK-VI unit comes individual gun'like case

with real trigger action. Unique pistol grip allows quick hand orientation and sure action; attach to key-ring, purse or belt. Fires about 25 half-second bursts, Order one for \$14.50 and SAVE by ordering six for \$60.00

DISTANT SOUND DETECTORS



The most sophisticated yet developed. Made for professional hunters to hear approaching animals at a great distance, the VanSleek has now been discovered by the security industry On city terrain sounds leap across blocks and streets. Guards are using VanSleek in prison yards to listen to convicts. The range of uses of the VanSleek Farfoon is astonishing and satisfaction is overwhelming. Receptivity plus. VanSleek is superior to direct receiver products...utilizes a built-in 3-1/2" parabolic dish for Sound Mirror effect previously found only on larger, more expensive units. Convenient size, small enough for use in tight places. Weighs about 2-lbs. Solid-state circuitry. Powered by 6 pen-light batteries for increased amplitude. \$148.00 postpaid and worth it!

PORTABLE SECURITY ALARM

This is not a stereo speaker!



The SUPER 6X is the Loudest and Longest Range portable electronic security (perimeter) alarm around!

Looks like an ordinary desktop stereo speaker, but it actually has a powerful infrared sensor with a whopping 60 x 60-foot range built into the cabinet. Whenever an intruder steps into scanning field, Super 6X emits an incredibly loud, piercing alarm. And the whole unit is powered by six pen light batteries. Small (7" x 4-1/2" x 8") and lightweight (about 3-lbs.). Take it anywhere - ideal for ANY security situation in the home, shop, work site, yard; for surveillance and military applications. Features: security key switch arms/disarms the unit; entry and exit delay adjustments; automatic reset timer; blinking indicator lights; terminal strip with built-in ports to accept accessories such as sensors on doors/windows, AC adaptor, pressure sensitive mat, external horn, etc. One year warranty. The Super 6X will absolutely BLOW YOU AWAY with its range and loud db alarm. Order TODAY for just \$68.50 postpaid.



Attach MICRO FOON to belt or shirt and experience the first truly effective "Mini" Distant Sound Detector. Key is a scientifically de-signed parabolic dish and super-sensitive microphone hidden behind the grillwork. Result is crisp, increased pickup thanks to Sound Mirror Effect also integral to the powerful VanSleek Farfoon. Superior to direct receiver products. MICRO FOON is smaller than transistor radio (2" x 4" x 1"), ideal for discreet surveillance (permanently mounted or mobile). Comes with two sets stereo earphones (ear plug & larger pad); 20-foot extension cord for remote monitoring (now you can hear low conversation across the room); precise volume control. Operates on 9v battery. Versatile MICRO FOON is perfect for security work and recreation, a great Listenaider if you're hard of hearing. Order TODAY for just \$77.50 post-

SHOOTERS EAR



For SWAT/police, serious shooters. Two sen sitive microphones plus "chip" technology in these Electronic Muffs AMPLIFY low sounds and LIMIT (suppress) loud sounds such as gun shots, yet allow you to hear range commands and normal conversation. Stereo operation and volume control for precise pickup. Top quality David Clark muffs. Powered by 9v battery. Lightweight and compact, comes with one year warranty. \$148.00 postpaid.

STROBE LIGHT



This emergency strobe can be seen up to FIVE MILES thanks to Xenon Tube construction. Compact & lightweight (about 6-oz.) security. Two models: 1) Portable "pin on" (powered by one D cell battery) and 2) "suction cup" model for use on boats, cars (operates off cigarette lighter). Both strobes are weather proof and made of tough plastic. SIXTY FLASHES per minute! Versatile applications for use in emergency situations, ideal for military operations, signalling, etc. At this low price keep one in every vehicle you own - \$19.00 for one, with each additional unit \$14.00 each postpaid. Mix and match models, your choice

STUN GUN



NOVA XR5000 \$63 postpaid 50,000 VOLTS!

The Nova XR5000 Stun Gun can protect you from attackers. STUN GUN will instantly "scramble" attacker's nervous system causing immediate (temporary) paralysis! By simply touching your attacker, even through many layers of clothing, he will drop helpless. STUN GUN is not lethal and is safe to user. Cannot transmit shock back to you. Requires 9v nicad battery and charger, \$16.00. The Nova is sold with a FREE leather holster for \$63.00 post-This is the authentic American made product. Put 50,000 volts in the palm of your hand. Order today!

BUG BOX



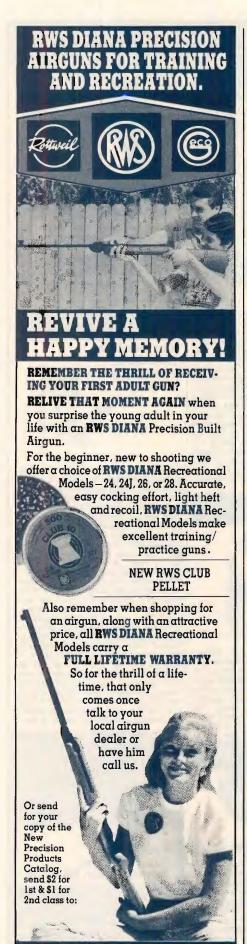
Assure complete telephone privacy with this telephone tap detector. It's the only device we know of that prevents same line eavesdropping PLUS notifies you of unauthorized intrusion onto your line. While most tap-detectors must screw onto your phone's mouthpiece, the BUG BOX is totally independent: plug your modular phone into tiny (3" x 2" x 1") BUG BOX, then plug BUG BOX into the wall jack. Now you've got TOTAL privacy - BUG BOX's indicator light lets you know if someone is eavesdropping AND if someone has intentionally (or unintentionally) tapped your lines inside our outside the house from the line feed. BONUS: Attach BUG BOX to every phone in your house, then you, AND ONLY YOU, can access the phone. BUG BOX not only tells you if someone else is on the line, it KEEPS THEM OFF with its Pri-vacy Shut-out Circuit. THEY CAN'T LISTEN IN EVEN IF THEY WANTED TO! Buy one BUG BOX and use its indicator light to tell you if someone else has come "on line"; buy as many BUG BOX's as you have phones, and have it both ways - total Privacy Shut-out plus visible light indicators. We know of NO OTHER TAP DETECTOR THAT HAS BOTH THESE FEATURES! Order BUG BOX for \$48.00 postpaid, and each additional unit for \$30.00 each.

MC/Visa & COD orders Call toll free 1-800-821-5157 Missouri customers (816) 221-3581

Mail in orders end check or money order to the address

The Dutchman Dept SG18 P.O. Box 12548 Overland Park, KS 66212

| Item | | Price |
|---------|-------|--|
| | | |
| | TOTAL | |
| Name | | |
| Address | | |
| City | | |
| State | | dp . |
| | | STATE OF THE PROPERTY OF THE P |



BOOKS/VIDEOS

Ragnar's Guide
to Home and
Recreational Use
of
High Explosives

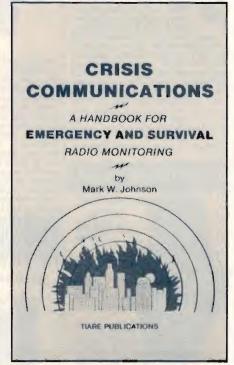
Ragnar's Guide to Home and Recreational Use of High Explosives, by Ragnar Benson; Paladin Press, Dept. *ASG*, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; 112 pages, softcover; \$12 plus \$3 shipping.

This book is dedicated to those hardy souls who enjoy harkening back to a time when the use of explosives, and dynamite in particular, was a domestic necessity. With them, a single individual can dig a disposal pit or dry well in otherwise impenetrable ground, set posts, remove large boulders, redirect creeks, blow up bad guys, and perform a host of otherwise impossible chores of immense benefit to mankind. Recipes for improvised explosives include sugar chlorate powder, ammonium nitrate and R.D.X.



Personal Picks, a video featuring Eddie the Wire, author of How to Make Your Own Professional Lock Tools; CEP, Incorporated, Dept. ASG, P.O. Box 865-8LI, Boulder, CO 80306; (303) 443-2294; VHS or Beta; 120 minutes; \$49.95 plus \$3.50 postage and handling.

Learn to make your own locksmithing tools through Eddie the Wire's step by step process. Discussing tools, equipment, materials, grinding, filing and finishing, Eddie states that anyone can make tools superior to those obtained commercially.



Crisis Communications, A Handbook for Emergency and Survival Radio Monitoring, by Mark W. Johnson; Tiare Publications, Dept. ASG, P.O. Box 493, Lake Geneva, Wisconsin 53147; (414) 248-4845; 84 pages, softcover; \$10.95 plus \$1.25 shipping and handling.

This book includes the frequency listings for a wide range of agencies and groups that may play an important role in emergency situations. The U.S. Army, National Guard, the Corps of Engineers, U.S. Air Force, SAC, TAC, Civil Air Patrol, U.S. Navy, Coast Guard, Federal Emergency Management Agency and numerous others. Learn how to choose the necessary radio equipment to tune in on these lifesaving frequencies and how to set up your listening post, install an antenna, and organize your monitoring.

DYNAMIT NOBEL - RWS INC.



The Gun Peddler, A marketplace for the exchange of handguns, rifles, assault weapons, shotguns, and firearms related accessories and services... by Morris and Nancy Litwack and Wayne Calhoun; The Gun Peddler, 11106 Magnolia Blvd., Dept. ASG, North Hollywood, CA 91601; (818) 763-0804; \$1 per copy or 12 month subscription for \$12.

Contains lots of ads for guns and rifles of all types. Also lists a calendar of gun shows, departments for gunsmiths, antiques, militaria and reloading.



The 1989 Calendar of Creative Revenge, by George Hayduke; Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, Colorado 80306; (303) 443-7250; \$9.95 plus \$3 postage and handling. "Airlines lost your baggage? Make 'empay with something (a dead skunk) scraped off Route 1. Just check your bag under an assumed name. Tell them the Hayduke way that their service stinks!" Clever illustrations and the usual Hayduke revenge pranks make this the calendar for those who relish the fine art of getting even.



The Survivor, Volume 2, by Kurt Saxon; Atlan "A" Formularies, Dept. ASG, P.O. Box 327, Harrison, AR 72601; (501) 743-2700; 464 pages, softcover; \$17.

The second volume includes more how-to information from 19th century science. Instructions on how to make soap, perfume, liquors, cosmetics, paints, etc. are found in the section called Dick's Encyclopedia of Formulas and Processes. There are also good sections on hydroponics and woven reed furniture. With so much useful information, *The Survivor* makes a good addition to your survival library.



1989 Military History Calendar, by Raymond R. Lyman; Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; \$8.95 plus \$3 postage and handling.

More than 150 historical military events — from the Spanish American War through the present — are highlighted. With over 40 photographs and informative captions, the key events and major turning points in war are dramatically brought to life. •



The constant force spring feature adds 2 extra rounds. Fits flush & functions in most 9mm pistols, including Ruger's new P85. Made in U.S.A. Special emphasis placed on quality using the highest level of special alloy. Heat treated to maintain control of lip formation and "state of the art" plasma welding for assured reliability. Blued Alloy \$24.95 Stainless \$29.95

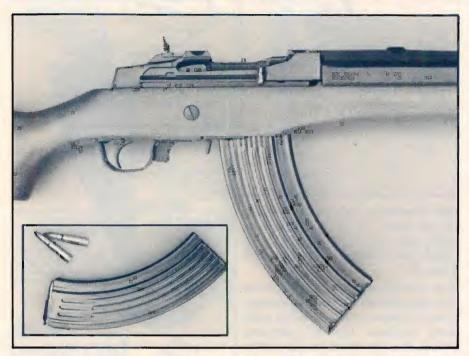
9mm Magazines for 1988

| Firearm | Rounds | Item # |
|------------------------|--------------|---------------|
| Beretta 92SB,92F, | 17 rounds | MAS 9017 |
| Taurus PT92AF-99AF | 17 rounds | MAA 9317 |
| Sig Sauer P226 | 17 rounds | MAU 9217 |
| Ruger P85 | 17 rounds | MAG 9085 |
| Browning High-power | 15 rounds | MAP 9015 |
| Beretta Compacts | 15 rounds | MAS 9115 |
| S&W 459 ,559, 659 | 17 rounds | MAW 9117 |
| Marlin Camp Carbine | 17 rounds | MAW 9117 |
| For Stainless Models A | dd "S" Follo | wing Item #. |
| Example: MAS9017S | or Beretta S | tainless Mag. |

Law Enforcement Inquires Invited.
Ask your dealer. If not available call
1-800-888-0375 for order info. Send
\$1.00 for catalog. See 50 more unique
products including the new'X'-Press
Loader™, for loading 9mm mags, and
receive a free patch.



NEW PRODUCTS



30-rd Mini Thirty Mags

If you own one of the new Ruger Mini Thirty rifles in 7.62 X 39 mm (Russian) caliber you've probably been waiting for someone to market magazines with a capacity greater than the standard 5-round magazine that comes with the rifle. The wait is over. Federal Ordnance of South El Monte, California, announces its new high capacity Mini Thirty magazine. Fed Ord was the first to produce a high capacity mag for the Ruger Mini-14 rifle and has sold more than one million of them to date. The new Mini Thirty 30-round mag is made by Fed Ord in the United States of 22 gauge steel. It is expected to be available Jan. 1, 1989. Suggested retail price was unavailable at this writing. Contact Federal Ordnance, Inc., Dept. ASG, 1443 Potrero Ave., South El Monte, CA 91733; (818) 350-4161.



U.S. Cavalry 1989 Catalog

U.S. Cavalry is celebrating its 15th anniversary with its most exciting collection yet of the world's finest military and adventure gear. In the 136page full color 1989 catalog you'll find genuine military issue, government surplus and outdoor clothing, field gear and footwear, a huge selection of knives, rappelling gear, police and special duty equipment, paintball weapons and accessories, Vietnam memorabilia, plus technical books and video tapes. For your copy of the catalog send your name, address and \$3 to U.S. Cavalry, Dept. AS17, 2855 Centennial Ave., Radcliff, KY 40160-9000; (502) 351-1164.



Camo Tape, Water Bladders

Sierra Supply has two new items for the outdoors/survival market: camouflage duct tape for disguising field gear and new 5-quart water bladders of plastic 6 mil mylar that fold flat for compact storage when not in use. The 2-inch wide, woodland camouflage pattern duct tape will stay on most metal or other surfaces and blends well in many outdoors settings. Price is \$7.95 per roll postpaid in the continental U.S. All other requests \$9.50 postpaid. Also

great for field expedient repairs on packs, web gear, etc. The water bladders fold out empty to 13 by 17 inches. When filled with water they can line a closet shelf or some other compact storage space. Finger tab dispenser is spill proof and leak proof. A great water storage bargain. Price for five 5-quart water bladders is \$12.50 postpaid. Contact Sierra Supply, Dept. ASG, P.O. Box 1390, Durango, CO 81302; (303) 259-1822.



Survivor's Choice Face Shield

The Survivor's Choice ballistic face shield, available for sale to law enforcement and government agencies only, is designed to stop a variety of projectiles up to and including .44 Magnum. Six inches high and weighing 1.5 pounds, the shield wraps around the face of the wearer and attaches to the sides of his helmet. Made in Europe and consisting of a laminated polycarbonate material with changed molecu-

lar structure, the shield is only ¾-inch thick but has the same bullet-stopping capacity as Lexan that is 3 inches thick. The shield distributor, Patriot Distribution Company, also plans to offer a body shield of the same material which will be available to corporate security personnel as well as law enforcement. Contact Patriot Distribution Co., Dept. ASG, 2872 S. Wentworth, Milwaukee, WI 53207; (414) 769-0760.



Parker Knife Set

Parker USA has assembled for the everyday worker and seasonal hunter a unique collection of cutlery accessories in one beautifully boxed gift set: Parker's A139-PG five inch folding hunter with black and wine Parker-

wood handles and U.S.A. 440 surgical steel blade, quality leather sheath, genuine Arkansas sharpening stone and all purpose honing oil. This new addition to Parker's U.S.A. made line contains everything knife enthusiasts



Code Red 20-Year Batteries

A new type of battery with a guaranteed storage life of 20 years gives assurance that an absolutely fresh battery will always be available on demand whenever it is needed. Ideal for outdoors, marine and general use. Code Red features a unique "twist top" that activates the cell's energy producing chemicals when power is needed. Until energized, the cell remains at peak potency, ready to work and after activation, it produces more power over a longer period than even a newly manufactured heavy duty zinc carbon battery can. Code Red contains no toxic materials to pollute the environment. and Code Red is waterproof. Once activated they cannot be turned off and are not rechargeable but will retain their charge about the same length of time as regular batteries when not in use. Code Red batteries are available from NITRO-PAK Storage Foods & Emergency Supplies, Dept. ASG, 11018 E. Rosecrans Ave., Suite 300, Norwalk, CA 90650; (213) 929-4705. Available in D cell only. One twin pack is \$7.49 plus \$2.95 S&H, six twin packs are \$40 plus \$3.50 S&H, a case of 12 twin packs are \$75 plus \$4.75 S&H.

need to keep their knives in excellent working form, including instructions on proper blade sharpening. Contact Parker Cutlery Association, Dept. ASG, P.O. Box 22668, Chattanooga, TN 37422-2668; (615) 894-1782.

NEW PRODUCTS



Swagman Australian Short Coat

Aussie ranchers have relied for a century on genuine oilskin clothing for all-weather protection. Oilskin is actually 100 percent cotton fabric treated with a secret oil formulation making it waterproof, windproof and breathable. If you soil the coat, hang it up and hose it off. The packable Swagman is a superb choice for town, trail or casual wear. The coat is cleverly constructed to fold up into an internal pouch pocket with belt loops for carrying on your side. Classic features include roll-up drawstring hood which forms the collar, full snap down shoulder cape, two way zipper with snap storm flap, underarm vents, roomy flap pockets and lined hand warmer pockets, 100 percent cotton drill lined interior, waist drawstring and brass hardware. Your choice of black or brown. Sizes S,M,L, XL. Price is \$119.95 and includes Brigade's "110 percent mistakeproof moneyback guarantee" of satisfaction. Order from Brigade Quartermasters, Ltd., 1025 Cobb International Blvd., Dept. 93K, Kennesaw, GA 30144-4349; (404) 428-1248.



Pocket Micro Torch

A new, small but mighty pocket micro torch is perfect for those small jobs that a big can't handle. The Blazer Pocket Micro Torch has two flame levels, 800 degrees C. or 1,300 degrees C., and can be used to solder, harden metal, sterilize needles, as a portable torch for a dental technician, mechanics, etc., or it can even be used as an emergency light. It is easily replaceable with Blazer butane and has a protective safety cap plus even a detachable stand which allows for either one or two hand

use. One of the most important features it offers is a state-of-the-art Piezo electric ignition system which eliminates the need for matches and lighters making it completely self contained and truly portable. Retail price is \$39.95 postpaid from Blazer Products, Dept. *ASG*, 114 E. 32nd St., Suite 906, New York, NY 10016; (212) 532-1166. Ask about the Blazer Deluxe Survival Kit PB207 with torch and other survival gear, and the RF300 Butane Refill.



Ceramic Knife

Boker, of Solingen, West Germany, introduces a ceramic blade in its pocket knife collection. This brand new ceramic material, which remains sharp indefinitely, has a hardness second only to diamonds, is ultra light and extremely abrasion and corrosion resistant, is non-magnetic and electrically non-conductive, and is durable at high pressure and high temperatures. Boker presents this new blade in an ultralight pocket knife with a Space Age titanium handle with a suggested retail price of \$115. Boker Tree Brand knives are distributed in the U.S. by Boker USA, Inc., Dept. ASG, 14818 West 6th Ave., Suite 17A, Golden, CO 80401; (303) 279-5919.

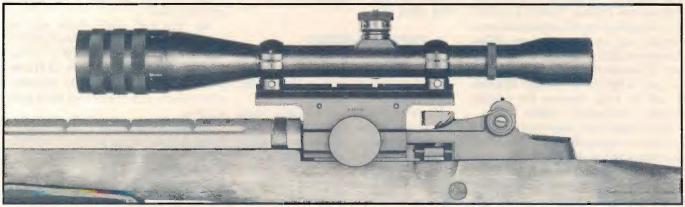
Miniature Handie Talkie

ACE Communications introduces a new miniature two way radio transceiver that offers 6 watts of power output on VHF High Band frequencies. Measuring 5 inches by 21/4 by 111/16-inches and weighing only 19 ounces, the unit covers a frequency range of 150-174 MHz. Besides 6 watts, it offers .3uV Sinad Sensitivity and a 5 MHz, zero degradation frequency spread, plus -70 db Spurious, Intermodulation and Adjacent Channel rejection. The unit, the new model Triumph BC-105, can be carried in a pocket, with the standard belt clip, or in an optional 1/8-inch thick leather carry case. Suggested retail for the unit is \$279, which includes a 450 MAH rechargeable battery, AC charger/adapter, flexible rubber antenna, stainless steel belt clip, soft protective case and a fast/slow rate drop in charger that is capable of simultaneously charging the radio itself plus an extra battery. Contact ACE Communications, Monitor Division, Dept. ASG, 10707 E. 106th St., Indianapolis, IN 46256; (317) 842-7115.

M1A/M14 Scope Mount

B-SQUARE's new military mount for the M1A/M14 rifle is quick on and off with a single knob attachment and returns to zero. It has elevation adjustment to help align hi-power sniper scopes and is see-under so the gun's sights can be used with the mount installed. This new mount has a standard dovetail and is long enough for





mounting all Aimpoint and military devices. It has improved style lines and a matte finish to match the gun. Sug-

gested list is \$99.95 complete with 1-inch standard dovetail rings. Available at dealers everywhere, or contact B-SQUARE Co., Dept. *ASG*, P.O. Box 11281, Ft. Worth, TX 76110-0281; (817) 923-0964. ●

Safety, Enjoyment:

Ten Rules for Surviving Abroad

Preparation and general knowledge...



Eating and drinking in many parts of the world may lead to sickness and even death.

By Charles W. Sasser

A few years ago I was "chicken bussing" in Mexico with my four-year-old son Joshua when a man and his wife spotted us in Tampico and came running up, so happy to see fellow Americans that they were wagging all over. It seemed they had misplaced their car and didn't know enough Spanish to ask for help. Besides, the woman needed a restroom — badly.

Many Americans who travel abroad are babes in the outback when it comes to possessing the survival skills necessary to safely travel foreign lands. Touring other countries with different languages and customs is not like climbing into your Chevy and driving to Kansas or New Jersey. Having traveled around much of the world for

the past 25 years, since I was 18, I have developed from sometimes difficult experience 10 general rules to help Americans traveling abroad to survive and enjoy it.

1. PREPARE FIRST:

Advance preparations may mean the difference between withering away in some forgotten seaport or blossoming on a sun-strewn beach.

It can save you a lot of trouble when you arrive at your destination to have already planned a broad but flexible agenda of what to see and do, where to go, and where to stay. It is also important for your security and well being to have boned up on local customs, history, political climate, and the requirements necessary for entering and leaving the country you plan to visit, such

as passports and visa information. It will also be helpful to know the exchange rate of currency and to have a general idea of how much things and services cost.

All this and much more can be obtained from published travel guides. The best of these if *FODOR's*, which is so detailed that Army Special Forces teams preparing for military missions often refer to it in conducting their area studies.

Also in preparing for your trip, don't forget to take along personal identification and the names, addresses, and phone numbers of next of kin in case of some misfortune in-country. A letter of instruction, written in the language of the country in which you are traveling, detailing what you wish done in the event of an emergency may prevent

later confusion.

Always let someone at home know where you plan to be on which dates and when you expect to return home.

2. LEARN THE LANGUAGE:

Obviously, you cannot learn the language of every country you wish to visit. However, if the lady in Tampico had simply memorized the Spanish phrase for "I need to use the restroom," she could have saved herself unnecessary discomfort.

Other helpful key phrases that you should memorize include: "I am ill; Call the doctor;" "Call the police;" "I am lost;" "Where is the (bus, train, plane) station?;" "How much does this cost?;" "Where is the (hotel, restaurant, etc.)?;"

Take along an English-foreign language dictionary. If nothing else, you can always point to the word or phrase you wish to communicate.

3. TAKE CARE OF MONEY:

Although almost anyone in the world will accept a U.S. dollar, to use anything other than local currency in some countries is considered black marketing, a crime for which you can be arrested.

It is safer to change into local currency at banks or authorized offices of exchange at airports or customs stops. Private money changers at many points of entry, especially into Third World nations, may cheat you or even rob you. Even though the money changers are technically black marketing, argue with them and you could find yourself on the losing end of a police-mediated dispute. Americans throughout the world are considered rich; you're not likely to get much sympathy from the authorities.

To help me not only in the exchange of currency but also in computing prices, I always carry a little card on which I have compared dollars and local currency in denominations of up to one hundred dollars. That way I can refer to my card and see that an item priced at 60 colones, for example, is \$10.

Carry as little actual cash with you as possible — and don't flash it. Use credit cards like MasterCard and Visa, which are accepted worldwide. American Express or International Travelers Checks is the safest way to carry money and can be easily converted to cash.

I also separate what cash I do have on me, sometimes hiding a large bill in my sock or boot to use in an emergency. I have seen gangs of barracuda in Colon and other places that can slit a tourist's pocket with a razor, finger



Traveling abroad is not like climbing into your Chevy and driving to Toronto. Living conditions in parts of the world, and thus traveling itself, may be primitive.

out the wallet, and disappear before the victim has time to shout "Montezuma's Revenge!"

That is why men should carry their wallets in their front pockets and women should avoid large purses with straps. Coin purses and hand wallets are safer.

4. TRAVEL LIGHT:

I discovered this rule the hard way when I transferred from one Guatamalan bus to another, assuming my luggage would be transferred for me. It wasn't.

Traveling in the U.S. can spoil you for traveling in foreign lands where you may be responsible for seeing after your own baggage. There may even be times when you have to carry your own things from the bus station or airport to the hotel. Just once stranded somewhere with 17 pieces of luggage will teach you the practical necessity of traveling light.

I generally travel with a large day pack that I can carry on my back. If I have to walk, as is sometimes necessary, I have all my belongings with me. you can always buy native clothing to wear that is both attractive and surprisingly inexpensive.

There is one other important reason for traveling light. Most airlines place size and weight limitations on baggage. Traveling light going means that you can return with more foreign purchases

— gifts for everyone.

When it comes to baggage, there is one firm rule that should never be broken: Don't put money, checks, passports, jewelry, cameras, or anything else expensive or irreplaceable inside your luggage. Carry these items on your person. I use a leather photographer's bag and keep it with me at all times.

5. TAKE CERTAIN ESSENTIALS:

While traveling light, don't neglect to take along certain essentials that may be difficult to acquire at your destination. Such things as bandaids, sanitary napkins, mouthwash, and sometimes even toilet paper may not be readily available, according to where you are going. Personal toiletries and prescription medicines should always be taken. Don't forget to take along the prescriptions for any medications; you don't want to be accused of drug smuggling.

If in doubt about an item, and if it is an essential one and not too bulky, take it along. Make a list of all these essentials during your preparations stage and try to determine which of them can be purchased locally once you

arrive.

6. USE LOCAL TRANSPORTATION:

You may have to keep personal tabs on your luggage and adjust to last-minute schedule changes, and you may have to eat tortillas or rice on the run, but if economy is a consideration and if you want to meet and get to know the real people of a country, then use transportation used by the common people. One of the most rewarding experiences I ever had traveling was taking the narrow-gauge railroad train across Panama from Colon to Panama City.

Busses remain the principle means of mass transportation in most countries in the world. They are cheap and fun to catch. You may have to share the journey with pigs or turkeys, but the ride is always alive and exciting with sound, color, and smells.

And it is a cheap way to go. In Mexico, for example, you can still travel from Tampico to Laredo, Texas, at a cost of about \$20. I once rode busses from San Salvador to the Rio Grande at a fraction of an airlines fee or what a similar bus trip across the U.S. would have cost.

Taxis can be a rip-off if you aren't careful. Not always government-regulated, they frequently charge whatever the

Ten Rules for Surviving Abroad

traffic will bear. I have seen taxi fares double the instant a well-dressed tourist hove into sight. Always establish the fee before you get into the taxi; otherwise, the short trip from airport to hotel may end up costing you a day's pay—and there is nothing you can do about it.

I make a habit of walking three or four blocks away from an airport or bus station before I hail a cab. That way, you're usually assured of being charged local going rates.

Better yet, I take the local busses with their psychodelic paint jobs and plastic Jesuses on the dashboards. You can travel all over most cities in the world on nothing more than pocket change. You also aren't ripped-off by cabbies wanting to take you to "special" hotels, nightclubs, or restaurants where the accommodations are cheap and the prices high and the cabbie gets a cut of the action.

No matter how you travel, however, whether it's by train in Korea or Europe, TACA airlines in Latin American where Catholics genuflect before taking off, or by local bus, break down the trip into legs with pauses in between for rest and sightseeing. There is nothing more tiring or uninspiring than a single long trip. Half the fun of going is getting there — especially if you use local transportation and travel with the people.

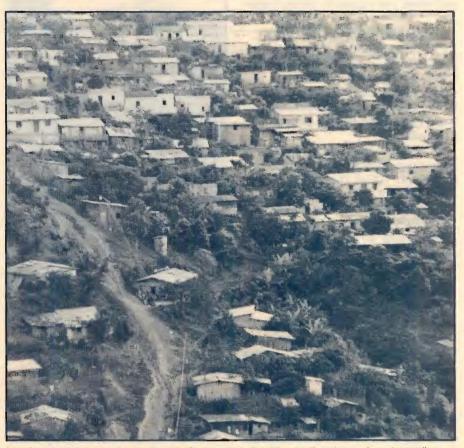
7. UNDERSTAND LOCAL CUSTOMS:

Each society has its own code of what is and what is not acceptable behavior. A little advance review of local customs may save you later embarrassment, or even worse. You should at least know enough to prevent patently offensive behavior. Bikinis, for example, or even less, may be perfectly acceptable on the Riviera but taboo in Jakarta. In Inchon, Korea, I was using a public restroom when a woman walked in and availed herself as my neighbor. That is common in most of the Orient.

Most libraries and book stores stock books on foreign lands and their people. Again, *FODOR's* is an excellent reference.

8. TAKE CARE IN DRINKING AND EATING:

People in many parts of Asia live with parasites that would destroy an American. Some water drunk by locals may actually kill a foreigner unaccustomed to it.



Learning about the land you plan to visit (Prepare First, Rule No. 1) will assist you in understanding the nation and aid in your safety by helping you decide where and where not to go.

The best rule for eating and drinking in foreign lands, especially in underdeveloped nations, is to drink bottled water or liquids such as Coke. Boil your water otherwise, or drink that from the larger cities. Never drink water from wells or from small local systems. In eating, avoid ham and spicy meats, wash fresh vegetables carefully in good water, use canned goods that are at least a nationally recognized brand, and dine out at only the better restaurants.

As an added precaution, I keep my international vaccinations current, take along prescription tetracycline to combat dysentery, although I've never had it, and check with my doctor when I return if I notice any unusual physical signs or symptoms.

Otherwise, when it comes to drink and diet abroad, you simply have to take your chances.

9. DRESS NATIVE:

The best way I have found of countering the tendency to raise prices for the "rich American" is to either dress like the ordinary locals or to don whatever foreigners who live in the

locale are wearing. This helps you in traveling light as well as in convincing merchants and others that you deserve treatment as a local instead of a tourist.

10. BE FRIENDLY:

Because of international terrorism, many Americans are either postponing traveling to foreign lands or are suspicious of the locals whenever they do travel. Terrorism is not a reason to stay home. Your chances of being hijacked or kidnapped are about the same as stepping outside your door and being struck by lightning or bitten by a rattlesnake. You should be more concerned with common thieves and dysentery than with terrorism.

With some preparation and a general knowledge of these 10 rules for surviving abroad, you can travel safely and happily almost anywhere in the world. People, I have found, are simply people wherever you find them. Greet them with a smile and a return smile is almost always your reward.

A smile, I have also found, can get you a lot farther than even a dollar bill.

SI

SURVIVAL, INC.

THE LEADER IN SURVIVAL FOOD & EQUIPMENT FOR OVER 15 YEARS

SI

WHY PAY MORE?

Current Military MRE



Retort Entrees

As Low As 75¢ Each

As the largest user of MRE entrees outside of the military and the Boy Scouts, we can offer these delicious entees at the best possible prices and we always have them in stock.

- * Taste Delicious hot or cold
- * Needs No Water
- * Generous Servings
- * Stores 5 to 7 Years
- * Wide Variety

Use For Camping, Hunting,
Off Roading, River Running,
Boating, Cabins or
Emergency Preparedness
Wherever You Want Good Food When
You Need It!

12 for \$13.50 + 3.50 S&H
36 for \$35,00 + 8.00 S&H
Case of 72
\$65.00 + 15.00 S&H
5 or More Cases
\$48.00 + 15.00 per case S&H

Current Varieties Available

Chicken Ala King, Turkey with Gravy, Beef with Gravy, Beef Stew, Ham and Chicken Loaf, Ground Beef in Spice Sauce, Meat Balls in BBQ Sauce, Frankfurters, Beef Slices with BBQ Sauce

New for 1988.

Omelet with Han, Spaghetti w meat sauce, Tuna with Noodles, Beef with Rice and BBQ Sauce, Pork with Rice and BBQ Sauce.

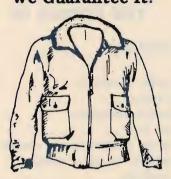
MRE SAMPLE PACK Try Before You Buy



Lets you try before you buy large quantities. 9 entrees, 2 beans with tomato sauce, 3 cakes, 3 LRP fruit bars, 2 brownies, 2 cookies, 1 cheese spread and 1 cracker ration. value \$22.50

\$13.50 ppd.

THE BEST \$200 LEATHER JACKET AVAILABLE We Guarantee It!



We think this quality leather jacket is the best value you can find today - If you buy it and disagree we will refund your money. There are many features to consider when buying a leather jacket. First, of course, the look and feel of the leather cheap leather coats feel cheap. The distressed leather looks great and feels like a glove. Second, but perhaps more important is the quality of the workmanship - who wants to pay \$300 for a coat that falls apart or starts to look bad the second time you put it on. We chose this excellent coat because it offers quality at a value price. So this distressed leather coat offers all the best, the worn look, high grade genuine distressed leather, cotton lining, polyester insulated, knit cuffs and waistband, high quality zipper and two way pockets. Truly one of the best we've seen and at an affordable price. #J900

Sizes 36 to 48 \$199.95 + 5.00 S&H Sizes 50 & 52 \$219.95 + 5.00 S&H State size when ordering

WW II Replica Silk Flying Scarf



A great accessory with your leather jacket or for everyday, 100% pure Chinese silk with Air Force Stars and Wings embroidery, 13" x 72"

\$15.00 ppd

15 FUNCTION POCKET KNIFE



We have found this the perfect size pocket knife for most hunters, campers, and other outdoors people. Also great for purse or emergency pack. Everything from screwdriver to toothpick. Well made of tough stainless steel with famous red handle. Comes in nice box for giving. \$9.00 value

\$4.95 + 1.55 S&H 3 for \$14.50 ppd.

Full Military Spec Green Rapelling Line

Genuine military spec rapelling rope. Brand new, first quality. Pre-cut in standard 120 foot lengths. 7/16 nylon rope with UIAA approval. Perfect for rapelling uses by paramedics, police, and fire personnel, or if you just need some of the



best rope available for whatever use this is it. OD in color. Regular retail \$59.95 + 4.50 S&H #R678

\$39.95 + 4.50 S&H

Deluxe Combo Belt Tool Kit



One of our most popular items the heavy duty webbed gear style sheath securely holds the genuine AA size Mini-Mag Lite, a pair of tough EMT shears that will cut through any material - even a penny, and a U.S. Marine stainless steel folding knife. If you

bought these individually they would cost \$46.90

Combo Special \$36.00 + 2.00 S&H

| SURVIV | AL, | INC. | (SI) |
|-----------------------------------|-----|-------|------|
| 15600 S. Gardena, (213) 324 | CA | 90248 | |



Outside California call TOLL FREE for credit card orders (800) 533-7415.

Please send me the following:

| Bill my DVISA | ☐ Mastercard | Exp. Date | | | |
|-----------------|----------------|-----------|-----|-----|--|
| Card No | | _Sub To | tal | | |
| NAME | | | | | |
| ADDRESS | | | | | |
| CITY | | | | | |
| PHONE | | TOTAL | | | |
| CA residents ad | | | | | |
| Send \$2.00 for | 48 page catalo | g | | 111 | |

Tension Breaks:

Stress

Exercise and preventive techniques can cut the cycle of tension . . .

By Douglas Stephens

D O you feel irritable, burned out in your present job? Do you often come home from work more tired than you should? Do you find yourself biting everybody's head off both at work and at home without any real reason? Do you sometimes wonder if you will ever reach your real potential?

If your answer is, "Yes" to any of these questions, you are probably suffering from excessive stress.

As a baby in the crib we all begin to suffer some sort of stress and it stays with us all our lives. It is a stimulus in our environment felt by everyone. Some people can experience a great amount and respond in a normal way. Most of us can't cope all the time and suffer physical and emotional changes. Some stress is good. It helps us deal with everyday life and sudden emergencies. Most people could not get out of bed and go to work without it. Excessive stress produces distress and strain, disrupting our lives. The cause may be biochemical, physical or emotional. When we learn to handle stress, make it work for and not against us, it can be beneficial. Maybe you should change jobs, but if the pay is satisfactory and all other things good, perhaps the next position would prove more stressful than the present one.

Why not conquer your stress instead? Understand it, then fight it. Learn how to cope with it effectively. By doing so your job, which you hadn't thought you liked, will not only become less stressful but you will find yourself happier, more productive and surely more healthy.

If your work involves dealing with the public, you will have to live with their idiosyncrasies and frustrations at the same time being pleasant and congenial to them yourself.

Exercise and preventive techniques can cut the cycle of tension. By using the following seven "Tension Breaks"

THE STRESS OF ADJUSTING TO CHANGE

| EVENTS | SCALE OF IMPACT |
|---|-----------------|
| | |
| Death of spouse | 100 |
| Divorce | |
| Marital separation | 65 |
| Jail term | |
| Death of close family member | 63 |
| Personal injury or illness | |
| Marriage | |
| Fired at work | 47 |
| Marital reconciliation | 45 |
| Retirement | 45 |
| Change in health of family member | |
| Pregnancy | 40 |
| Sex difficulties | |
| Gain of new family member | |
| Business readjustment | |
| Change in financial state | |
| Death of close friend | |
| Change to different line of work | |
| Change in number of arguments with spouse | |
| Mortgage over \$10,000 | |
| Foreclosure of mortgage or loan | |
| Change in responsibilities at work | |
| Son or daughter leaving home | |
| Trouble with in-laws | |
| Outstanding personal achievement | |
| Wife begins or stops work | |
| Begin or end of school | |
| Change of living conditions | |
| Revision of personal habits | |
| Trouble with boss | |
| Change in work hours or conditions | |
| Change in residence | |
| Change in schools | |
| Change in recreation | |
| Change in church activities | |
| Change in social activities | |
| Mortgage or loan less than \$10,000 | |
| Change in sleeping habits | |
| Change in number of family get-togethers | |
| Change in eating habits | |
| Vacation | |
| Christmas | |
| Minor violations of the law | |

or "TBs" you will find they lighten your work tensions and bring about a state of relaxation and well being.

A checker at the grocery store, a clerk in a retail store, a typist or a computer operator, or possibly any person in an office or business can find some quiet corner to practice these TBs. If they are used daily, in a few months they will become a habit. They need not take long, only six seconds to no longer than five minutes.

NUMBER ONE: Time 6 seconds. This can be done 50 or 60 times a day or whenever you feel tense or irritated. Start by smiling inwardly with your mouth and eyes, then say to yourself several times, "Alert mind — calm body." Then take a deep breath all the way down to your abdomen. As you exhale, let your jaw, tongue and shoulders go limp while you feel a wave of warmth and heaviness sweep down to your toes. Now resume normal activity.

NUMBER TWO: Time 2 to 3 minutes. Find a spot where you can be alone. Sit down, if possible. Close your eyes, breath deeply, relaxing every part of your body. Imagine you are walking by a beautiful mountain lake or by a quiet running stream. Make yourself really believe you are there. Hear the rustle of leaves, the birds singing, the sound of water lapping the shore or the running of the stream. Perhaps you are floating in a boat on the smooth, blue water of the lake. Smell the flowers and the pine trees. Feel the sun and breeze on your body. Allow yourself to let go completely.

NUMBER THREE: Time 2 to 4 minutes.

In a quiet location, sit down and relax your shoulders. Place your hands comfortably in your lap, close your eyes. Listen to the sound of your breathing. Feel your breath at the tip of your nostrils as you inhale and going out at the tip of your nostrils as you exhale. Take a few deep breaths until you feel yourself relaxing.

Keep your eyes closed, turn your head to the right very slowly as far as it is comfortable. Turn your head to the left the same way. Bend your head forward and slowly toward your chest. Turn your head and shoulders from the waist to the right then the left. Raise both shoulders and rotate them backard three times. Do the same rotating forward three times.

Raise both shoulders while you bend your head backward. Take a deep breath. Wiggle your fingers and toes. Gently open your eyes. Go back to work more relaxed.

NUMBER FOUR: Time 3 to 4 minutes.

For this one take off your shoes. If you have a carpet, work your toes, bottoms and sides through the carpet. Pick up and indulge one foot at a time. Warm it between your hands. Massage between each toe using gentle finger pressure on each joint. Using the thumbs apply pressure to the bottom of your foot. If you find tender spots, continue to work into and around that area. Massage around the heal and on top of the foot. Vary the strokes and pressure to prevent hands and fingers from tiring. Finish by lifting one leg with both hands from under the thigh and shaking the lower leg. Allow ankle to be loose. Straighten leg from knee and lower it slowly. Repeat with other leg.

NUMBER FIVE: Time 3 to 5 min-

Think of yourself as a rag doll. Shake your right hand then your left. Let your mouth and head be slack then shake your head like a doll. Shake out your left leg than your right. Hop on your right foot — shake your left. Repeat standing on your left foot. Jump and wiggle your body, moving your arms all around. If you are alone in a sound proof room you can sing, laugh, shout, make noises and let go. Otherwise try doing this silently.

NUMBER SIX: Time 3 minutes.
Try laughing to restore your good

humor. Repeat, "Ha, ha, ha" until you are genuinely laughing out loud if possible. Laughter relaxes a lot of involuntary muscles while increasing the oxygen consumption and circulation.

NUMBER SEVEN: Time 2 to 3 minutes.

Reduce eye strain. People who spend long periods intensely concentrating on a small object like a computer screen or closely written words on papwer can suffer from eye strain. Direct lighting of varying power (fluorescent or incandescent) can be irritating to the eyes and lead to pain and tension. Try to shield the eyes from glaring light. Even with the best light the eyes still can get tired after some time. To relax the eyes look away into the distance, changing focus every so often. Consciously blink and take deep braths.

Allow a feeling of relaxation to begin with the top of your head and feel it spread through the muscles of your scalp and forehead. Let yourself actually feel the muscles on the forehead relaxing. Allow your cheek, face and jaw muscles to let go. Breath normally, count 12 breaths, not letting any other thoughts distract you. When you are ready to go back to work, take a deep breath and open your eyes.

Take tension out of your driving. City freeway and other heavy traffic to and from work or in job related driving can build up tension. Before you leave your home or the office parking lot take a moment to relax. Try relaxing your shoulders as in exercise NUMBER THREE (2 to 4 minutes). You will make up this time by being a more relaxed driver. According to research by Baylor University and the University of Michigan, a tense driver is

Would you like to know more about stress?

These organizations publish books and pamphlets on coping with stress.

American Heart Association 7320 Greenville Avenue Dallas, Texas 75231

Family Service America 11700 West Lake Park Drive Milwaukee, Wisconsin 53224

Krames Communications 312 90th Street Daly City, California 94015-1898 Public Affairs Pamphlets 381 Park Avenue South New York, New York 10016

National Institute of Mental Health

Public Inquiries Room 15C05 Parklawn Building 5600 Fishers Lane Rockville, Maryland 20857

SMOKES



MILITARY SMOKE GRENADES (M-18)

Brand new G.I. — straight from the factory. This grenade is used to produce dense clouds of smoke for signalling and screening movement of small units. The smoke from these military grenades is designed to cling to the ground rather than rise into the air. Burn time: 50-90 seconds; Fuse delay: 1-2 seconds after handle is released. Weight 19 oz. Available in white, red or yellow.

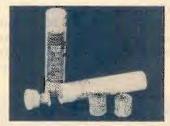
Price: 1 or 2 grenades \$34.95 ea. 3 or more \$32.50 ea.



RIOT BUSTER SMOKE GRENADE

Light this unit and produce an incredible 100,000 cubic feet of HC white smoke. Can be used for emergency services, disaster and evacuation training exercises, war games, large smoke screens or riot control. Burn time: 2½-3 minutes; Fuse delay 5-10 seconds. Cannister is 4" tall and 2" in diameter.

Price: 1 or 2 cannisters \$7.95 ea. 3 or more cannisters . . \$6.95 ea.



SMOKE PELLETS

When lit with a match or lighter, these smoke pellets generate a large amount of dense, white smoke. Each pellet contains an ignition surface, making it easy to light in wind. Burns without flame but is very hot. These smoke pellets have a multitude of uses. Packed 4 pellets to a tube. Price: tube of 4........\$3.75 tb

Shipping and Handling: add \$3.00 per order.

Catalog \$2.00; FREE with order.

Phoenix Systems, Inc. P.O. Box 3339A

Evergreen, CO 80439 Phone: (303) 674-2653

Stress

second only in vulnerability to accidents to a drunk driver.

Adjust your demands, decreasing the force. We either are race horses or turtles. Some people thrive on an energetic lifestyle and produce best under pressure which does not bother them. They have developed an adaptability to pressure and know how to decrease their resistance to it thus reducing stress. Delays to them can be more frustrating and stressful.

Others are the turtles. They function best at a slower pace. If you push them, put them under pressure, they develop stress, become irritated, agitated. Determine your type and adjust your life style to it.

Learn to ask yourself this question, "Does this have to be done now?" Spend your energy on those things that have to be done at this time. All of us have only so much energy. When it is used up, it takes time to replenish. Try to delegate many minor jobs to someone else. Keep your energy for the important things that only you can do

Flexibility or resiliency is important if you wish to reduce the damage stress does to your body. Flexibility is synonymous with mental health. This allows you to use stress to help, rather than hurt. Move with conditions, don't fight them. Flow with the force, don't try to buck against them.

Don't try to be a perfectionist. This is the Achille's heel of many people. No one can be perfect, we can only strive for perfection. If we do not reach it, don't let it floor you. Accept the fact that perfection is something we can try for but not always attain.

You have heard many people say, "Why does this happen to me?" Remember what happens to you is not as important as what you do about what happens to you. Everyone has things happen to them. Tell yourself you have not been singled out for all the bad things that happen to you. Take the failures with the successes. They usually balance out. We can learn from both.

Stress is something everyone has. By facing it, not running away, learning to cope by using tension breaks, you can help face the everyday stresses of this modern world.



We have a limited supply of back issues from the months listed below... Just fill out the coupon

SURVIVAL

McMULLEN
PUBLISHING
Back Issues
2145 West La Palma Ave.
Anaheim, CA 92801

| Sep '80 | Feb '86 |
|-------------------|--------------------|
| Oct '81 | Mar '86 |
| Dec '81 | Apr '86 |
| Mar '83 | |
| Apr '83 | |
| May '83 | Aug '86 |
| Aug '83 | |
| Oct '83 | |
| Nov '83 | Dec '86 |
| Dec '83 | Mar '87 |
| Jan '84 | Apr '87 |
| Feb '84 | May '87 Jun '87 |
| Mar '84 | |
| Apr '84 | Jul '87 |
| May '84 | Aug '87 Sep '87 |
| Jul '84 | |
| Sep '84 | Nov '87 |
| Oct '84 | Dec '87 |
| Nov '84 | |
| Dec '84 | Feb '88 |
| Jan '85 | |
| Mar '85 | Apr '88 |
| Apr '85 | May '88 Jun '88 |
| Jun '85 | Jul '88 |
| Jul '85 | |
| | Sep '88 |
| Aug '85 | Oct '88 |
| Oct '85 | Nov '88 |
| Nov '85 | Dec '88 |
| | Jan '89 |
| Jan '86 | |
| | |
| | |
| Namo | |
| Name | |
| Address | |
| | |
| City S | tate Zip |
| | |
| Signature | |
| | |
| Enclosed is my | |
| Check | money order |
| | |
| | the issues desired |
| above @ \$3.00 | each totalling |
| s | |
| | |
| Postage & Hand | lling (\$1 for |
| single issues: \$ | |
| | TOTAL AMOUNT |
| muniple orders) | IUIAL AMOUN |

All orders are directly packaged & promptly delivered. (Foreign orders use International money order or certified check in U.S. dollars; add \$5).

ENCLOSED \$



MAIL ORDER VIDEO

How to Shoot Fast

AND ACCURATELY

The fastest shooters in the world show you how to shoot fast and accurately. Complete how-to information on equipment, draw, grip, sight picture, trigger pull... It's all here plus lots more. Professionally produced with slowmotion, graphics, music and complete narration.

800-942-TAPE In CA (619) 569-4000

60 Minutes \$49.95 Holiday Special! Buy any THREE Get One FREE!!



ROCK 'N' ROLL #1 **Fully Automatic** Machine Gun Fun

The finest, most informative machine gun videotape ever produced. The FBI, CIA, and LAPD all have it! Complete info on history, size, weight, caliber, and characteristics of UZI, M-16, AK-47, MAC-10, MINI 14, and over 15 more. 45 minutes \$49.95



PISTOL MASTERS

Sight picture, grip, trigger pull, stance, type of gun and ammo, practice methods, mental concentration...it's all covered in the best, pure "how-to" shoot combat pistol video available. Features Leatham, Enos, Barnhart, McCormick Plaxco, Joanne Hall, Spagnoli, Wilson and Chapman. 60 minutes \$49 95



U.S.M.C. FIREPOWER U.S.M.C. FIREPOWER
The most awesome display
of modern battle weapons
ever recorded on videotape!
See all the latest weapons
carried and used by the U.S.
Marines at an actual military
demo including the M16A2,
M-60, M203 Grenade Launcher,
60mm and 81mm Mortar,
Mark 19 Automatic Grenade
Launcher, LAV-25, and the M20 Echo Tow Missile System
plus lots more. Plenty of tracer,
impact and explosion scenes,
90 minutes. \$85.00



ROCK 'N' ROLL #2

More Guns, More Fun Popular demand for #1 created the need for this tape. Features 20 different full auto machine guns with field-stripping. THOMPSON, STEYR AUG, M-14, M60, MAUSER BROOMHANDLE, BAR, MP-40, and over 14 more. \$49.95 60 minutes



BOB MUNDEN

The Fastest Gun To Ever Live Incredible fast draw display with live ammo. Complete how-to for fanning and thumbing with Colt single action revolvers. Includes card splitting with both pistol and rifle, aerial shooting, gun spinning and much, much more! 75 minutes. \$49.95



FIRESTORM

How to Handle & Fire **Fully Automatic Weapons**

Step-by-step demonstrations of submachine guns, assault rifles, light and heavy machine guns and more. Detailed information, explosive action and exciting personal experiences by the most respected military small arms expert in the world today... Peter Kokalis. 60 minutes. \$69.95



DEADLY EFFECTS Wound Ballistics

Shows what bullets do to bodies. How to choose effective handgun ammunition. The effects of bullet weight and bullet configuration. Stopping power, energy transfer, penetration and incapacitation. From the producers of Deadly Weapons. Over80 minutes. \$95.00



SENTRY NEUTRALIZATION

GREEN BERETS

Sentry Neutralization Green Beret stealthing and killing techniques for taking out enemy guards and sentrys. You can learn the no nonesense fighting techniques of America's elite military fighting corps. 60 minutes. \$59.95



THE STEEL CHALLENGE

THE STEEL CHALLENGE
World Speed Shooting
Championships
The 1988 Steel Challenge
Video features the fast and
furious action of the most exciting pistol competition in the
world. This videotape highlights the "Super Squad" consisting of the fastest, most
accurate shooters alive.
Complete play-by-play narration, interviews with the top
shooters, slow-motion replay,
freeze frame and much more.
60 minutes \$49.95



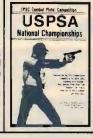
DEADLY WEAPONS

earn the truth about modern firearms. What they will and will not do. Compares different calibers shooting through glass, into car doors, at bulletproof vest, even into auto fuel tanks! Thousands sold worldwide. See for yourself why the KGB, FBI, CIA and hundreds of police agencies have this tape. Over 100 minutes.



JOHN SHAW COMBAT SHOTGUN Self Defense and Combat Competition

John Shaw is known worldwide as an excellent firearms instructor. Learn all you need to know about combat shotgun shooting, sight picture, stance, grip, rapid target acquisition, pump vs. auto, chokes, pistol grips and much more.
60 minutes \$49.95



USPSA NATIONAL CHAMPIONSHIPS IPSC Combat Pistol Competition

IPSC Combat Pistol Competition
True combat pistol action featuring the best shooters in
the world. Watch and learn
as they go through the paces
of the most realistic combat
courses ever designed. If you
want to be a better combat
shooter this tape is a must.
Professionally produced, full
color, slow motion, interviews
and lots more.
70 minutes
\$49.95

MORE EXCITING VIDEOS

| Anti-Terrorism Weapons & Tactics \$39.95 | End of Trail\$49.95 |
|--|---|
| Navy Seals\$39.95 | NRA Bianchi Cup\$49.95 |
| Swat Tactics\$59.95 | Steel Challange\$49.95 |
| Concealed Weapons & Holsters \$49.95 | SOF 3-Gun Shoot/Convention \$39.95 |
| Paint Ball Weapons & Tactics\$49.95 | Second Chance Combat Shoot\$49.95 |
| Wornan's Guide To IPSC\$49.95 | Basics To Bullseye w/John Pride \$39.95 |
| Self-Defense for Women \$49.95 | Rifle Shooting Techniques\$39.95 |
| Metallic Cartridge Reloading \$49.95 | How To Sharpen Your Knife \$39.95 |
| Millet Cights How To \$20.05 | AS Auto Pictol Video Manual \$20.05 |

Call toll free to order and to ask about any tape in which you are interested. We'll be happy to answer all of your questions.

800-942-TAP

In CA (619) 569-4000

Please send me the following videos:

Please include \$3.00 shipping and handling.





7888 OSTROW STREET, #A 🗆 SAN DIEGO, CALIFORNIA 92111

7.62 NATO AK-47 Rifle

By Jim Benson

WHEN we first reported that Mitchell Arms would be importing Yugoslav AK-47s in 7.62 x 51 mm (NATO) caliber in the July 1986 issue of ASG we were eager to test one.

They are finally being sold here in the U.S. and demand appears to be brisk. Available on the U.S. market for only about the past six months, these new 7.62 NATO (.308 Win.) AKs are of the same high quality that sets Yugoslav AKs apart from other Kalashnikov rifles.

The fixed stock AK-47 Model M77B1 from Mitchell is, except for semiautomatic type of fire, full military quality or better and exhibit those special features offered only on the Yugoslav AKs,

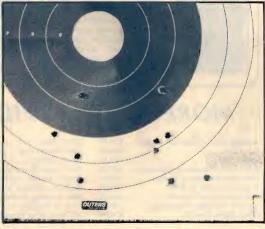
including full teak wood fore end, butt stock and pistol grip, extra thick walled stamped steel receiver and rubber butt plate and flip-up tritium night sights besides the standard iron sights. Additionally, all these rifles come with a scope mount rail permanently affixed to the left side of the receiver. This is

(Continued on page 69)





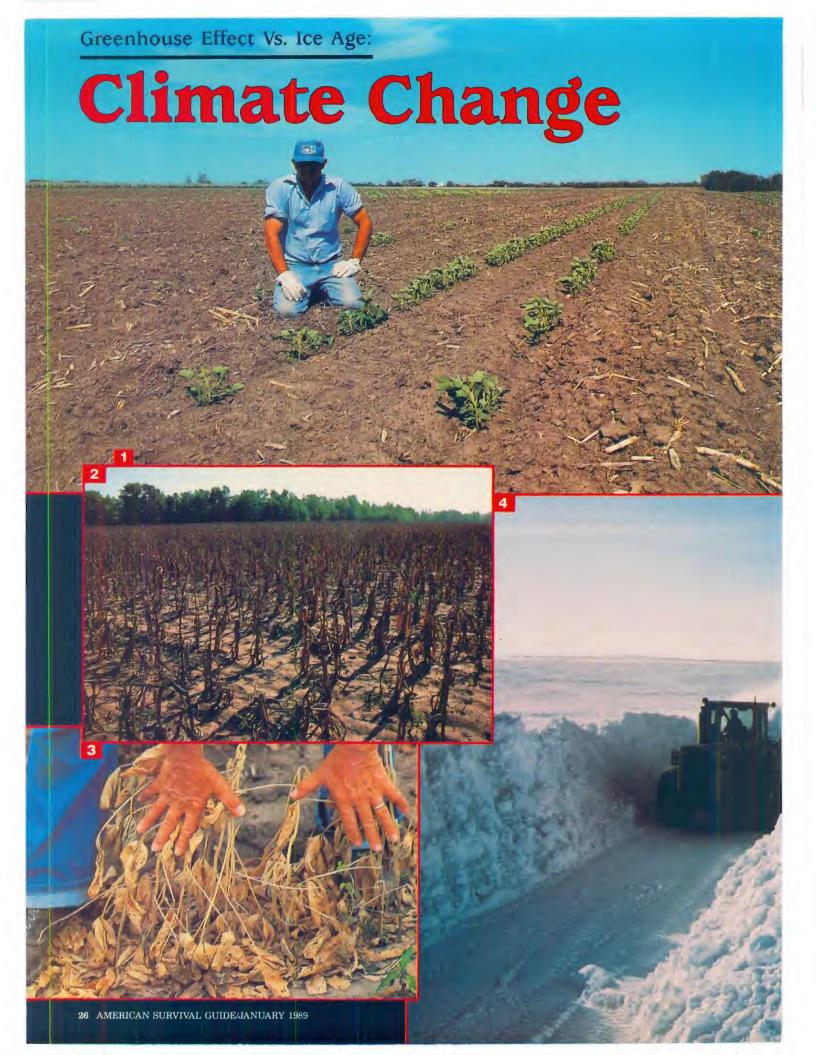




Louis Mitchell fires the M77B1 with Yugoslav 4 power scope and with a Leupold 3 x 9 Compact scope at targets 150 yards away. The targets show the results.









to indicate the approach of a new ice age with much colder weather (Rusty Gillete).

5 & 6. The frequency of severe weather disturbances such as floods, droughts and hurricanes is believed to increase during periods of climate change.

These photos show effects of Hurricane Frederick (1979) and Hurricane Camille (1969) on the U.S. Gulf Coast (N.O.A.A.).

Are we in for a major global warning trend, or heading into another ice age that could last 90,000 years?...

By Becky Gillette

C LIMATE CHANGE. It could be Mother Nature's ultimate revenge. An inevitable doomsday caused by mankind's shortsighted tampering with the delicate — and still little understood — mechanisms that keep the earth's climate within the narrow range of extremes that will support life.

Weather extremes of all sorts — from droughts to floods, heat waves to record cold spells and severe storms to the retreat of monsoons in areas which can ill afford the loss of rain — have been blamed on climate change. And, if you believe the majority of predictions, what we've experienced so far, including the famines in Africa and billion-dollar agricultural losses from recent U.S. droughts, may just be minor troubles compared to what's ahead.

Consider the following comments: "Even for the most highly industrialized countries a significant change in climate could strain all available resources, possibly leading to wars of conquest on the one hand, or extremely expensive adaptation, such as climate

Science News, March 1, 1975.

"Scientists...have long known that human activities, particularly the

domes, on the other." John H. Douglas,

burning of fossil fuels, are artificially increasing the volume of greenhouse gases in the earth's atmosphere and that this increase eventually will make the planet the hottest it has been in human history.

"... These changes will dramatically affect both human and natural systems, threatening such crucial activities as agriculture, forestry, fisheries, pollution control and the protection of parks and preserves." Laura Tangley, *BioScience*, January 1988.

"'Greenhouse effect' a threat to earth life," headline, Gannett News Service article, Nov. 11, 1987.

"If the recent run of droughts in Africa and the eastern U.S. is typical of what we're going to see with carbon dioxide-driven warming, then there's going to be unprecedented pressure on the globe. Then we're looking at death on an enormous scale." Climatologist Mick Kelly, *Discover*, January 1986.

"The dismal result of efforts to achieve truly interdisciplinary research in science and the dismal performance of some official agencies may foretell a dismal end for most of the world's population in the next 15 years," consulting

(Continued on page 64)

Nuclear Protection:



Workmen prepare the hole before placement of the module. Note the bed of gravel for drainage.

Workers assist a backhoe operator to properly position the shelter module on the Jackson property.

Low-Cost Underground Shelter

A small investment for a potentially large return...

By Bill Volkart



The shelter with its waterproof asphalt coating in position before being covered with earth.

ESPITE the recent thawing of hostilities between the two superpowers and the apparent decay of the Chinese communist state, we still live in a world where nuclear war is a distinct possibility.

And while many people would like to think that the danger is past, there are those individuals who have studied their history books and are quite aware of just how many times the world has been declared at peace in the past only to subsequently descend into war. And don't forget the fact that the world's nuclear club of nations is growing, bringing less-than-stable rulers the power to terrorize their perceived enemies.

Clearly, the U.S. is not out of the frying pan yet and a number of Americans continue to remain prepared to survive in the event things don't work out the way we'd like.

One such person residing in the heavily industrialized area of southwestern Ohio, a primary target for Soviet missles, has designed and built an inexpensive and surprisingly efficient subterranean shelter to protect his family. Better than the cost factor, this shelter can be constructed on a driveway and placed into position by one man operating a backhoe, both good points in a nation that may find itself suddenly short of qualified engineers during wartime.

Newton Jackson (a pseudonym) wanted to build a concrete shelter when he first began but after discovering what the final dollar figure would be (\$10,000, roughly), he decided to rethink his plans. Limited by his \$3,000 budget, he finally opted to build his shelter from easy to obtain pressure-treated lumber and ½-inch marine plywood. Materials were cheap in comparison to concrete and allowed Jackson to easily build it on site, drastically reducing transportation and fabrication expenses. The only problems were how to design the structural members to bear the three feet of earth that would be covering the shelter and how to prevent water from collecting around it and causing dangerous rotting of the

The first problem required a bit of figuring. In addition to the weight of the yard of topsoil above, Jackson also figured in the effects of overpressure from a 1+ megaton blast on primary targets 8 miles distant, coming up with a nominal figure of an extra 2 pounds per square inch. He then designed his supports to withstand four times that amount. Placing them at 12-inch centers, doubled two-by-fours heavily cross-braced and matched with floor and ceiling joists form a virtual ring of supports satisfying the needed structural requirements. On paper at least, the 16-foot long, 8-foot wide, 7-foot tall module was starting to take shape.

Guarding the wood from rot proved to be less trouble than the structural calculations but still posed it's own set of problems. For one, the slope of Jackson's backyard had to be measured to assure that adequate drainage could be provided at the shelter's buried depth and also how the moisture should be collected and disposed of quickly. It was decided that a layer of packed pea gravel beneath the shelter, drained by 4-inch diameter perforated PVC pipes linked to a solid wall drain line of the same material, was the way to go and fortunately his property cooperated, having just barely the drop in elevation needed.

The roof is sloped on one side to

encourage quick runoff, but Jackson realized that even short exposures of the shelter's wooden walls to moisture would prove to be trouble. To prevent this, the drawings called for caulking all seams and applying two heavy coats of exterior polyurethane enamel, followed by liberal coats of spray-on heavy fibrous asphalt and a plastic sheet draped over the module when placed into position. Needless to say, with all this protection it would have to rain pretty hard — flood, actually — to cause water to leak into the shelter via the ground.

Humidity levels within the buried module were taken care of by installing a dehumidifier and blower into the design, powered by DC voltage from sessed of a main corridor tall enough for a six-footer to stand upright without stooping. Provided with a chemical toilet, several small fluorescent fixtures drawing tiny current loads, ample food and water and a few personal amenities, the occupants are assured of tolerable, if slightly crowded, living conditions.

With most of the obvious design and livability problems solved, all that remained was for Jackson to construct the unit and apply for the proper permits to begin readying the property for installing the shelter. He then had the materials delivered and commenced building the structure in his driveway, a process that involved something on the order of 100 man hours of work



The entry module is positioned next to the shelter.

heavy duty marine 12-volt batteries. They, in turn, would be recharged by a gasoline generator located outside the shelter (heavily shielded with a buried fuel tank) that could be controlled from within. Exhaust air would exit through PVC pipe stacks which would be connected to the shelter by inverted plastic sanitary tees in such a way as to foil any attempt to pour hazardous substances down them by redirecting the danger down past the inlet into a sand absorption bed.

Recognizing that cabin fever is one of the single greatest threats to shelter dwellers, the module is comfortably spacious inside, sleeping four on fold-down beds that double as seats, pos-

with frequent interruptions from curious passers-by.

Things moved along smoothly and soon the second coat of protective paint was dry and all attentions turned to the permits, which had not been approved as yet. When word finally came, it was a crushing disappointment — the permits were denied!

Apparently, the local building department looked down on anyone building a shelter as some kind of kook and did not intend to allow such goings on in their neighborhoods. There was a happy ending, fortunately. Faced with a fancy playhouse in his driveway, Jackson merely changed the title of his permit drawings to say "root cellar"

Low-Cost Underground Shelter



The all important drain line running from the shelter

instead of bomb shelter and the permits went through in a few days. So much for dealing with stubborn bureaucrats.

Papers in hand, Jackson then hired a backhoe to excavate the hole for the shelter and the drainage trench and followed with a dump truck load of gravel for his drainage system. The piping was hooked up and the moment of truth was at hand just three days later when the time came to lift the module off it's blocks and place it into the prepared hole. Groaning a bit under the load, the backhoe gingerly picked up the 16-foot long shelter and with some guidance from workmen, placed it squarely on target. A smaller entry module, similarly waterproofed but not intended to provide radiation protection was then lowered into position and attached to the main shelter by a short tunnel while workers busily attached the air intake unit at the far end of the module. Once the spray-on asphalt and tent of plastic were in place, all that remained was to cover the shelter under it's yard of topsoil.

The work crew had gone about a week, during which time the Jackson family busied itself by smoothing and replanting the area again, before anyone dared to look inside to see how the shelter was handling the load of earth. Much to everyone's satisfaction, the

walls were holding fine against the load except for one or two places where a slight bowing had occurred in a wall stud, a problem easily fixed by the addition of some extra crossbraces in the troubled areas. Heavy rains two days prior had not succeeded in crossing the barriers and the unit was quite dry inside, if somewhat stuffy. A quick check of the lighting and blower indicated no problems either, a reassuring fact, and the Jackson's new "root cellar" was stocked and made ready to fulfill it's purpose of saving and preserving life.

You would be hard pressed to notice the Jackson's shelter today, now that grass grows on the slope again and newly planted evergreen shrubs are rapidly growing to conceal the exposed portions of the vent and intake stacks. Small modifications and improvements are added from time to time to the interior of the shelter and the Jackson's young son takes great delight in using it for a playhouse when Dad gives the OK.

But regardless of it's current uses during peacetime, it still stands ready to help the Jackson's survive and see their way of life and their freedom passed on to future generations. A small investment for such a potentially large return, don't you agree?

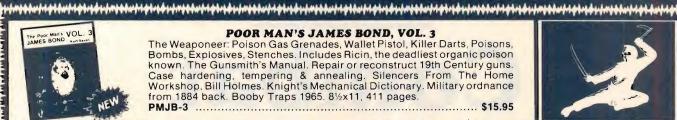


This is all you see above the shelter now that the earth covering has been landscaped

POOR MAN'S JAMES BOND, VOL. 3

The Weaponeer: Poison Gas Grenades, Wallet Pistol, Killer Darts, Poisons, Bombs, Explosives, Stenches. Includes Ricin, the deadliest organic poison known. The Gunsmith's Manual. Repair or reconstruct 19th Century guns. Case hardening, tempering & annealing. Silencers From The Home Workshop, Bill Holmes. Knight's Mechanical Dictionary. Military ordnance from 1884 back. Booby Traps 1965. 8½x11, 411 pages.





POOR MAN'S JAMES BOND REVISED EDITION Contains the original PMJB.

revised, corrected, enlarged; plus full-auto conversion of the AR-15, Mark 1, Mini-14 and Sten Gun. Fireworks & Explosives like Grandad used to make. Explosives, Matches & Fireworks. American Pyrotechnist. Arson By Electronics. U.S. Marines Hand-To-Hand Combat. Plus, making Potassium Cyanide, Fire Grenades & The Ultimate Booby Trap. 8½x11, 477 pages. revised, corrected, enlarged; 8½x11, 477 pages. PMJB-1 \$15.95



PMJB-3

POOR MAN'S JAMES BOND, VOL. 2 Five Classics in one volume! The Chemistry Of Powder & Explosives, American Ju-jitsu. Chemicals In War. The Poor Man's Armorer. Back Poor Man's Armorer. Back in print with a whole arsenal of improvised weaponry not in any other books. Home-made Bazooka, Silencers, Booby Traps, Bolas, Spear Gun, Smoke/Gas Grenades, Mines, Zip Gun, plus, Army Improvised Munitions Handbook, 8,441, 484, arges book. 8%x11, 484 pages. PMJB-2 \$15.95



GRANDAD'S WONDERFUL BOOK OF CHEMISTRY The original 19th Century methods of home manufac-

turing for everyone. Make herbal extracts, essential oils, acids, gasses, alkaloids, etc. Make most of the chemietc. Make most of the chemi-cals from easy-to-get raw chemicals. Plus, a complete course in laboratory glass blowing; the Medical Stu-dent's Manual of Chemistry, dent's Manual of Chemistry, 1889; Chemical Magic, 1920; How to Make and Use a Small Chemical Laboratory, 1926, 81/4×11, 423 pages, GBC \$15.95



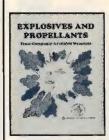


PROFESSIONAL

HOMEMADE SALUTES by Joseph Abrusci Don't throw away those old boxes and paper bags! With the aid of this book you can turn them into some great frecrackers, cherry bombs, thunderbolts and other salutes. Instructions for mixing powder, making cases from scrap cardboard and all other steps are clearly ex-plained and illustrated with numerous photos. A must for every pyrotechnic library. 51/x81/4, softcover, 44 pages 542\$6.00



ADVANCED HOME-MADE FIREWORKS Learn to safely make fire-works at home that really work. Advanced Homemade Fireworks covers in detail how to make skyrockets. pinwheels, roman candles, aerial bomb shells, foun-tains, cherry bombs & M-80's. Complete explanation of each chemical & its use makes the manufacture of homemade fireworks easy for even the novice. A must for anyone interested in homemade pyrotechnics. B-103\$8.00



EXPLOSIVES AND PROPELLANTS From Commonly Available Materials

Available Materials
Another great book from the
Golden Era of Improvised
Munitions at Frankford Arsenal, with in-depth coverage
of: Manufacturing Black
Powder from Field Grade
Potassium Nitrate, Improvised Primary High Explosives. Optimised Procedure
for Field Manufacture of
Improvised Detonators and for Field Manufacture of Improvised Detonators and more. Loaded with illustrations and tables. 8½x11, softcover, 56 pages. 227 \$8.00

TWO COMPONENT HIGH EXPLOSIVE MIXTURES

The material in this volume never reached our overt and covert operatives before the program was phased out. The emphasis in these tests was to produce extremely powerful, yet easily made explosives by combining two compounds which separately were very safe to handle. One of the explosives covered, Astrolite A-1-5, is the world's most powerful nonuclear explosive, 5½x8½, softcover, 28 pages, illus. 251 covert operatives before the \$4.95



IMPROVISED WEAP-ONS OF THE AMERI-CAN UNDERGROUND Compiled from actual hand-books of various paramilitary

groups this volume covers the theory, design and con-struction of various types of silencers and contains plans for a homemade SMG, plus



S.A.S. SURVIVAL MANUAL

Written by the head of survival training for the Special Air Service (SAS), an elite Air Service (SAS), an elite unit of the British Army. Sections cover: emergency first aid, shelter, finding and preparing food, hunting, lishing, knot tying. Color illustrations show edible and poisonous plants, poisonous snakes and reptiles, dangerous insects and sea creatures and sects and sea creatures and even medicinal plants. The best survival book available. 9x9½, 288 pages.





BUTOKUKAI IS NOW THE LEADING SUPPLIER OF MANUALS FOR FULL-AUTO CONVERSIONS AND HOMEMADE SUPPRESSORS. EACH WAS RESEARCHED AND/OR WRITTEN BY A LICENSED CLASS II AUTOMATIC WEAPONS MANUFACTURER AND/OR A PROFESSIONAL MACHINIST WITH AN EYE TO MAKING THE CONVERSION/MANUFACTURING PROCESSES AS SIMPLE AND PRACTICAL AS POSSIBLE. AND DON'T LET THE TERM "HOMEMADE" SUPPRESSOR FOOL YOU—THESE MANUALS CLEARLY DESCRIBE THE MATERIALS AND STEPS NEEDED TO MAKE PROFESSIONAL QUALITY SUPPRESSORS

SUPPRESSORS FULL-AUTO

| AR-15 — Stk. # 061 | \$6.00 |
|-----------------------------------|----------|
| MAC 10 — Stk. # 010 | \$6.00 |
| KG-99 — Stk. # KG-99 | \$8.00 |
| Ruger 10/22 — Stk. # 10/22 | \$8.00 |
| H&K 91/93 — Stk. # HK 91/93 | \$8.00 |
| Selective Fire UZI - Stk. # FP-4 | \$10.00 |
| UZI — Stk. # 036 | \$6.00 |
| M1 to M2 — Stk. # 130 | \$6.00 |
| AK-22 — Stk. # 022 | \$6.00 |
| HK 94 — Stk. # HK 94 | \$8.00 |
| Ruger Mini-14 Stk. # MINI-14 | \$8.00 |
| Selective Fire 10/22 — Stk. # 229 | \$10.00 |
| STEN — Stk. # STEN | . \$9.95 |

| Ruger MK 1 — Stk. # Mk1S\$ | 6.95 | , |
|-------------------------------------|------|---|
| Ruger 10/22 — Stk. # 10/22S\$ | 6.95 | , |
| UZI — Stk. # UZI-S\$ | 6.95 | |
| MAC 10/11 — Stk. # MAC-S\$ | 6.95 | , |
| KG-9 and KG-99 — Stk. # KG-99S\$ | 6.95 | , |
| Silencers .223 — Stk. # 223S \$1 | 0.00 | į |
| Silencer Cookbook — Stk. # FP-3 \$1 | 0.00 | į |
| Firearm Silencers — Stk. # FP-1\$ | 9.95 | , |
| AR-7 Rifle — Stk. # AR7-S\$ | 6.95 | , |
| | | |

24 PAGE FULL-AUTO, WEAPONS & MARTIAL ARTS CATALOG \$1.00 (CATALOG SENT FREE WITH ORDER)

BUTOKUKAI P.O. Box 430, Dept. SG-1

| | Cornville, AZ 86 | 5325 | |
|--------|--------------------------|---------------|--------|
| IAMI | | | |
| DDF | RESS | | |
| | | | |
| ITY | | | |
| TAT | E ZIP | | |
| | | | |
| REC | DIT CARD NO. | | |
| EXP | . ISIGNATURE | | |
| - ^ - | . Islandione | | |
| TY. | STOCK NO. | U.S. FUNDS | TOTAL |
| | | | |
| \neg | | | |
| _ | | | |
| | | | |
| WEA | CCEPT MONEY ORDERS. CHEC | CKS. S&H | \$3.00 |
| 1 | MASTERCARD OR VISA. NO C | | |
| | (602) 634-6280 | TOTAL | |

Combat Encounters





The attacker steps in to strike with a weapon in his left hand. McSweeney steps in to meet the attacker's forward momentum and delivers a right chop to the vagus nerve.

OMBAT karate is oriented towards survival. Practitioners work on developing their self-defense abilities, leaving such things as tournament competition and full-contact kick-boxing to devotees of sport karate. Self defense usually entails meeting violence with violence so the techniques employed are aggressive.

The well known combat karateist Brad Steiner urges his students to "attack the attacker." I agree with him as well as with the military axiom, "the best defense is often a good offense." Close examination of the animal kingdom supports this theory. Tigers and other predators don't waste time on defensive tactics. They simply ATTACK. Sneak up on a lion and see what happens; as soon as he spots you he attacks. The same is true of guard dogs; they defend by attacking. They have only one weapon, their teeth, but they use this weapon so effectively they frighten any unarmed man.

The system of combat karate I teach emphasizes power strikes to a few vital targets. The strikes are designed to stop any aggressor, regardless of his size. Moreover, through repeated drills, the motor nerves are trained for spontaneous reaction. Most important, my system is based on key lessons I learned from 17 actual encounters. The strikes I used as well as my aggressive tactics worked for me at the time and a review of some of these encounters should be helpful to anyone interested in understanding the principles of effective self defense.

My first encounter was in 1960 after one year of training in Kenpo Karate with Ed Parker in Pasadena, California. I was attacked by a tall, powerfully built man who came at me with a wrench in his left hand. I rushed in on him and struck the side of his neck with a powerful right chop. The wrench flew out of his hand as he fell on his side, momentarily stunned. After a short while he crawled on his knees, then got to his feet and ran away.

He was stunned because I hit his vagus nerve, a knock-out point. The power of the blow was produced by the lightning-like speed of my hand as it described a circle which tended to cut right through the target and the power

The author's system of combat karate emphasizes power strikes to a few vital targets...

By John McSweeney

John McSweeney is the founder of the Irish Karate Association and holds an eighth degree black belt in the International Combat Martial Arts Federation. He teaches combat karate at his school in Elmhurst, Illinois, and markets a four-video tape series on his self-defense system. For more information, contact McSweeney's Self-Defense, Dept. ASG, P.O. Box 1218, North Riverside, IL 60546 — The editors.

was increased by a rapid twist of my waist at the moment of impact. The free-wheeling nature of this circular Kung-Fu chop is completely different from the linear karate chop which hits the target and bounces back. It is also twice as powerful!

The striking surface was not the traditional "edge of the hand" which gives upon impact and thus reduces the shock to the target. Instead, I chambered my hand back towards my wrist to hit with the meaty section at the base of my palm together with the adjacent wrist bone. Since there is no give when striking with this area all the power of the blow is transferred to the target. Because I rushed in, my body-center moving forward added to the force. In addition my rushing in caught my assailant by surprise, "beating him to the punch."

There was no hesitation on my part during the moment of crisis; I reacted spontaneously. Moreover, I thought "only of the cut," the philosophy espoused by the great 17th century Japanese swordfighter, Miyamoto Musashi, and thus wasted no time worrying







Attacker squares off from a distance. McSweeney steps in using a cross-over twist step (right leg over left). The momentum of the cross-over step brings McSweeney's full body weight into the target as he delivers a double-palm strike to the sternum.

about defending myself from the wrench. The aggressive viewpoint, "attack the attacker," was a critical element in this successful defense.

I keep a log of my encounters and so I recall them by number. My 10th was in 1970 at a restaurant in New York City where I was celebrating my 25th anniversary of graduation from high school with fellow classmates.

We were sitting at the bar after dinner when I noticed a strong-looking man grabbing one of my classmates by the collar and about to punch him. I jumped off my bar stool and ran about seven yards towards the assailant who quickly let go of my schoolmate and reflexively turned to face me.

Without breaking my stride I did a cross-over twist step while chambering both hands at my side and then hit the man in the sternum with a double-palm strike. He flew backwards, his body striking an associate. They both landed on the floor, looking frightened. Suddenly another man rushed towards me with both fists clenched. I moved forward to meet him but he stopped his rush before contact range. My fighting spirit was at a peak so I dared him to come on but he backed down, keeping a safe distance from me.

As my classmates removed me from the restaurant he began to shout at me but made no further attempt to fight me. Later one of them told me he was the bouncer and had a reputation for being a tough fighter. Why he backed down is just as important in understanding the principles of combat karate as why two men were knocked down by one blow.

First I will describe the blow, the

double-palm strike. Chamber the weapon at your side, both hands facing each other and slightly apart. Twist your waist so that your chest faces 90 degrees away from the target. Strike forward, turning the hands to hit with the base of each palm and as soon as the arms are fully extended, whip the hands back towards your chest.

Move the body center forward by stepping in with the opposite foot as your strike. Stepping with the opposite foot permits a full waist turn and the resultant torque increases the power. You can also practice this strike while running in order to increase momentum but be sure to do a crossover step to allow the waist twist. This strike, incidentally, is used by all Tai-Chi masters and is called "uprooting." Many of them can send you flying backwards with only a 6-inch strike and they claim it is their "chi" which produces such dramatic results. There may indeed be a mystical element to "chi" but even without magical enhancement constant practice of the double-palm strike develops awesome hitting power.

Why did the bouncer back down? My anger caused a fighting rage, fully devoid of any fear. He sensed that rage and decided not to engage it. He also saw that two men were knocked down and realized I possessed a certain amount of fighting skill. What caused my anger? Nothing more than the sight of my small classmate being bullied by a much bigger man. In war, hatred is the one emotion that can override fear, so when troops hate the enemy they fight like men possessed. In self defense, controlled anger overrides fear

and motivates you to fight. Anyone who dares to assault you physically, to actually try to harm your only real possession, your body, should cause instant anger.

Even the threat of such an assault on you or anyone dependent on you for protection should cause anger. How much violence you use depends on the situation as well as your level of skill.

My 17th encounter was in 1984 at a night club in Chicago. I had been dancing with a lady friend and as the music stopped, a man about my size punched my shoulder as he snarled "Watch your step, jerk, don't bump into me while I'm dancing." I was surprised since I didn't think I had bumped him so I said "Take it easy. It's a crowded floor - anyone could have bumped you." He probably took my calm explanation and lack of response to his punch as a sign of weakness or perhaps he was trying to impress his lady friend with his toughness but, whatever the reason, he threw another punch, this one aimed at my face. I ducked under the blow and stepped in with my right foot as I hit his lower ribs with a right upward elbow strike. I then grabbed his windpipe with a left eagle's claw and squeezed it quickly as I whispered a threat into his ear.

He coughed to catch his breath and then disappeared from the dance floor. Neither of the two ladies ever saw my strikes since both moves are fast and subtle, designed to attract little notice.

My threat had the desired effect but without the strikes the threat would have lacked impact.

Now I'll describe the blows. The first (Continued on page 43)



BK&T Corp.:

Machax Survival Tool

Modern interpretation of the classic Gurkha Kukri...

Staff Evaluation







ABOVE — The blade is full tang and ¼-inch thick heat treated chrome-moly steel.

LEFT — The machax comes with a black leather or black nylon sheath.

"I want a tool I can use for everything — chopping and whittling as well as a froe, hammer or pry bar," explains Ethan Becker, president of Becker Knife and Tool Corporation which makes the Machax Survival Tool and a similar knife called the Warrior.

"It is not the best hammer, but the flat can be used for one if needed. It is not the best pry bar, but it works. In its primary uses, chopping and hacking, please note that when it hits it hits dead. There is no 'machete wrist' from vibration! You will be able to use the Machax for quite a while before your wrist hurts. One of our guys took a Machax out in the woods and in four hours with the Machax as his only tool he built and thatched a roomy lean-to shelter for two people, a fire frame and reflector, two pieces of camp furniture

and stocked the camp with firewood

— and no machete wrist.

"Note also the differential grind on Machax which has more of a slicing angle on the inside of the curve to more of a chopping and splitting angle closer to the tip. We are, I think, the only people who sharpen down close to the grip on a tool like this so that it is easy to use for close-up work."

The heavy ¼-inch 4140 chrome-moly blade of the Machax borrows the unmatched weight distribution of the Gurkha Kukri knife (which itself is a variation of an ancient design), combines it with fine American steel, full-tang construction and Zytel scales large enough for a good working grip. Weight is 20 ounces.

The 4140 chrome-moly steel is moderately heat treated, giving it a very

tough nature. It can be quickly sharpened using a file, stone or rock if need be. It will rust, but it has a rustresistant phosphate finish except for the edge. A little oil will help prevent corrosion. If the scales or blade are ever broken, BK&T will replace them without question — provided you didn't do it on purpose. We tried out the Machax in a bamboo thicket and on several types of dead and live trees and heavy brush and found it to be excellent.

The Machax can be purchased with fine black leather or nylon sheath for \$129 (either sheath alone is \$25) from Becker Knife & Tool Corp., Dept. ASG, P.O. Box 44179, Cincinnati, OH 45244; (513) 231-9446. Ohio residents add 5½ percent sales tax. Also available at better cutlery dealers. ●



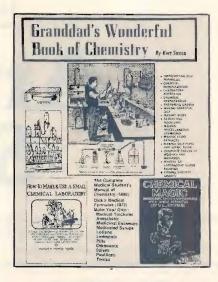
81/2 x 11, 480 Pages - \$17.00

Money Making & Saving; Hundreds of ideas for Cottage Industry, Trades, Hobbies. Cut Food Bills; Never Hunger. Burglar-Proof Your Home. Surviving a Nuclear Winter. Make Soy Milk, Sprouts, Tofu. Toy Making for Fun & Profit. Making Imitation Gold & Silver. Make a 1 or 2 Horsepower Windmill from Scrap. Foot-Powered Lathe. Make See-Through Mirrors. Black Powder; How to Make the Best. Set Up a Home Foundry. Build Concrete Furniture.



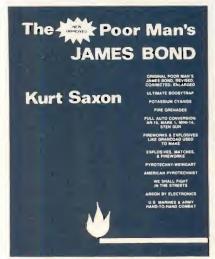
81/2 x 11, 464 Pages - \$17.00

More trades, hobbies, crafts, 19th century science. This volume also completes the total reprinting of Dick's 1872 Encyclopedia of Formulas and Processes. Full instructions in the trades of Dying, Soap-Making, Liquors, Perfumery, Cosmetics, Cements, Ceramic Glazes, Paints, Metalurgy, Electroplating, Etc. Also in this volume: THE TANKS ARE COMING — complete course in soilless growing, inside or outside. GUIDE TO RADIO CONTROL.



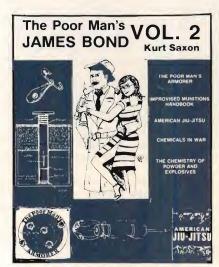
81/2 x 11, 418 Pages — \$17.00

The original 19th Century methods of home manufacturing for everyone. Make Herbal Extracts. Essential Oils, Acids, Gasses, Alkaloids, etc. Make most of the chemicals from easy-to-get raw chemicals. Plus, a complete course in Laboratory Glass Blowing; Dick's Encyclopedia of Practical Receipts and Processes, 1872; the Medical Student's Manual of Chemistry, 1889; Chemical Magic, 1920; How to Make & Use a Small Chemical Laboratory, 1926.



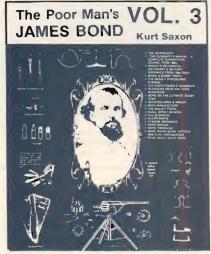
81/2 x 11, 480 Pages — \$17.00

Here at last, the *New Improved*, the ultimate armed civilian. This first of a set of three contains the original PMJB, Revised, Corrected, Enlarged; plus, Full Auto Conversion of the AR-15, Mark 1, Mini-14, and Sten Gun. FIREWORKS & EXPLOSIVES LIKE GRANDDAD USED TO MAKE. EXPLOSIVES, MATCHES & FIREWORKS. PYROTECHNY-Weingart. AMERICAN PYROTECHNIST. WE SHALL FIGHT IN THE STREETS. ARSON BY ELECTRONICS. U.S. MARINES & ARMY HAND-TOHAND COMBAT. Plus, making Potassium Cyanide, Fire Grenades & The Ultimate Booby Trap.



81/2 x 11, 484 Pages — \$17.00

Five Classics in one volume! THE CHEMISTRY OF POWDER & EXPLOSIVES, Tenny Davis, 1943. AMERICAN JIU-JITSU, 1942. CHEMICALS IN WAR, 1937. THE POOR MAN'S ARMORER. THE ARMORER, long out of print, but finally back with a whole arsenal of improvised weaponry not in any other books. Homemade Bazooka, Silencers, Booby Traps, Bolas, Concealed Weaponry, Spear Gun, Smoke/Gas Grenades, Mines, Caltrops, Ingenious Zip Gun, Do-it-yourself Machine Pistol, Knife-Throwing Techniques, plus, ARMY IMPROVISED MUNITIONS HAND-BOOK.



81/2 x 11, 412 Pages - \$17.00

THE WEAPONEER: Poison Gas Grenades, Wallet Pistol, Killer Darts, Poisons, Bombs, Explosives, Stenches. Includes Ricin, the deadliest organic poison known and its simple manufacture. THE GUNSMITH'S MANUAL, 1883. Repair or reconstruct 19th Century guns. Hand forge iron & steel for gun parts & knives. Case hardening, tempering & annealing. SILENCERS FROM THE HOME WORKSHOP, Bill Holmes. KNIGHT'S MECHANICAL DICTIONARY. Military ordnance from 1884 back. BOOBY TRAPS 1965. Make your territory impregnable.

OUTSIDE U.S. SEND BANK OR POSTAL MONEY ORDERS MADE OUT IN U.S. FUNDS

| The Survivor — Volume 1 | Visa/Mastercard Accepted All Books Postpaid Order From: ATLAN "A"FORMULARIES P.O. Box 327 Harrison, AR 72601 (501) 743-2700 | Name | |
|--|---|---------|-------|
| Granddad's Book of Chemistry \$17 The Poor Man's James Bond \$17 The Poor Man's James Bond, Vol. 2 \$17 The Poor Man's James Bond, Vol. 3 \$17 Arkansans Add 4% Sales Tax Total Enclosed | | Address | |
| | | City | State |
| | | Zip | Date |

Law Enforcement Ordnance:

American Striker

U.S.-made 12-shot, 12 gauge magnum-firing shotgun...





Grant Stapleton, LEO president, fires slugs in the fixed stock Striker at a silhouette target about 30 yards distant. The resulting five-shot group is shown here. The slugs were fired fairly rapidly.

By Jim Benson

Y OU may have read about the unique, spring motor driven revolving magazine South African "Striker" 12-shot, 12 gauge shotgun.

Due to import restrictions, this weapon is not now available for distribution in the United States. An American-made improved version is now available on the U.S. market, however, and it can fire magnum loads, which the original African gun can not fire

Made by Sentinel Arms Corporation for the exclusive U.S. distributor, Law Enforcement Ordnance Corporation (LEO), both of Ridgway, Pennsylvania, the American Striker is the same gun as the South African shotgun with some important improvements.

These include a fixing shaft which holds both pieces of the receiver together and prevents flexing with the firing of magnum loads, stronger construction of the cylinder and charging holes for use of magnum shells, a steel barrel shroud which protects the aluminum alloy barrel, a front sight, a reinforced winding key, and a sliding metal loading aperture cover that does not protrude from the drum magazine.

This new, improved Striker will fire any 2¾-inch shotgun load, including any type of magnum. The magazine holds 12 shots and these can all be fired in three seconds or less if necessary.

"The Striker is probably the fastest shooting shotgun in the world due to its quick action," says Greg Souchik, LEO sales and marketing administrator. He says the Striker is in service internationally with several government security forces in Europe, Africa and South America as well as with

several major U.S. law enforcement agencies.

The gun is loaded and unloaded by means of its winder. With the safety catch behind the trigger pressed to the right of the gun in the SAFE position, the loading aperture cover is lowered and the shotgun is loaded one shell at a time. As each shell is loaded, the winding key is turned to move the drum magazine to the next empty chamber until all 12 chambers are full.

With the winder fully wound and the aperture cover closed (very important to prevent injury), the weapon is ready to fire with the safety catch in the FIRE position. One of the safety features of the Striker is the heavy two-stage trigger. The first stage of the trigger aligns the rounds in the magazine with the firing pin. The second stage of the trigger drops the hammer which drives the



Stapleton demonstrates firing the Skriker with one hand. This photo shows recoil just after discharge



Greg Souchik, LEO sales and marketing administrator, fires the Striker with optional folding stock.

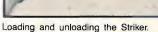






Here Souchik extends the folding stock and fires the Striker from the shoulder.









firing pin into the primers of the shells. This way, until the trigger is pulled the magazine is always out of line with the firing pin and barrel. If the gun is dropped it will not discharge.

After firing, the winding key is again used, along with the ejector lever located on the right side of the barrel next to the front sight, to unload the empty shells from the drum magazine. With the safety on and the barrel pointed in a safe direction, the winding key is again turned to move the cylinder until all empty shells have been ejected. The weapon is then ready for reloading.

Stripping for cleaning and maintenance requires the use of 4 mm Allen wrench (not included with gun). Cleaning is recommended after 2,500 rounds have been fired in the shotgun.

It is made to U.S. military specifi-

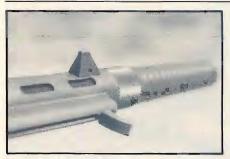
cations and will function in extreme cold or heat, blowing dust, snow, rain or other weather conditions, according to LEO officials. The U.S. Striker has a computer projected life expectancy of 300,000+ rounds (even magnums). "We've run 30,000 rounds through one gun without cleaning it and it's still functioning flawlessly," says Souchik.

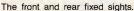
With practice, the Striker can be loaded and unloaded rapidly. Souchik, and Grant Stapleton, LEO president, say they have fired all 12 rounds in 1.7 seconds, but three seconds is an average for rapid fire.

The frame of the matte black finished Striker is ordnance grade steel. The barrel and cylinder are a very tough heat treated aluminum alloy. The Striker comes with a fixed stock and pistol grip of 50 percent long fiber polycarbonate resin. An optional folding steel stock can be purchased for the shotgun, as well as an Armson OEG red dot sight, nylon carrying bag, adjustable nylon web sling and ballistic nylon vest which carries 48 or more 12 gauge shells concealed behind removable velcro panels, LEO, which markets the Striker and accessories for it, is the patent holder for the U.S. made Striker and was the only authorized importer of the South African Striker before import restrictions were imposed.

Field Testing — The ASG staff traveled with Greg Souchik and Grant Stapleton to a public shooting area in the mountains of Southern California to test shoot one of the new U.S. Strikers. We brought along some Remington Express Long Range No. 2 Shot loads, Winchester Super-X Hol-

American Striker







The steel barrel shroud protects the aluminum alloy barrel.









ABOVE & UPPER RIGHT — The optional ballistic nylon vest carries 48 or more rounds and other gear and has concealable, removable panels.

The safety catch is pushed to the right to engage the safety.

low Point Rifled Slugs, Federal No. 4 Magnum Buck Shot and Magnum 00 Buck Shot.

We fired all of our ammunition, approximately 100 shells, and experienced no malfunctions. Moreover, the Striker exhibited excellent accuracy firing at targets about 30 yards distant. We fired the gun from shoulder and hip with the fixed stock and folding stock. Recoil, while definitely noticeable with the magnum loads, is not excessive. With lighter loads recoil would of course be even less. The 10+ pounds weight of the shotgun when fully loaded keeps recoil down. It is easy to handle and operate, although the strong, two-stage trigger pull requires some getting used to. LEO offers two models of the Striker, its Sporting model with 18-inch barrel, shown in the photos accompanying this article, and a Police model with 12-inch barrel.

Like its predecessor, the Americanmade Striker is an innovation; it's

Striker Sporting Shotgun: Tech Specs

| Capacity |
|---|
| Lengths: |
| With fixed stock |
| With folding stock extended |
| With folding stock folded |
| Barrel |
| Height (without sight) |
| Width |
| Weight, unloaded (folding stock) |
| Safeties trigger lock catch, firing pin out of line with shotshell primer |
| Rate of fire |
| Price, suggested\$725 |
| Distributor Law Enforcement Ordnance Corp., |
| Dept. ASG, Box 336, |
| Ridgway, PA 15853; |
| (814) 772-1616 |

rugged, with a lot of firepower. We think it has great potential for police, military and personal or home defense use. Its unique design and operating characteristics, including the excellent safety features, make it a strong contender among other 12 gauge shotguns.



4001 E. Fanfol • Phoenix, AZ 85028

USE COUPON

BELOW OR

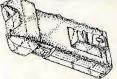
CALL TOLL FREE

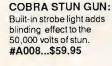
1-800-

527-4434

Stun Guns

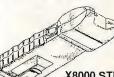
Defend yourself against muggers, dopers, rapists or any attacker without deadly force. Our "Stun Guns" will instantly "scramble" any assailant's nervous system causing immediate, but temporary paralysis! By simply touching your attacker anywhere, he will drop to the ground a helpless blob of "jelly". Effective even through many layers of clothing, our Stun Guns are not lethal and are safe to the user. They cannot transmit shock back to you. Operate on a 9-volt battery (not included). Several models available.





VIPER STUN GUN: Our best selling gun. NOVA XR5000 STUN GUN

American made. Used by Police departments around the world. #NV1...\$69.95

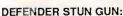


50,000 volts of power!

#A007....\$49.95

X8000 STUN GUN: 80,000 volts of power!

Extremely effective. #SH23...\$79.95



Popular curved head design. Full 50,000 volts of stopping power



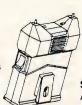
MINI-STUN GUN:

Less than 5 inches tall but full 50,000 volts of power! #BT5...\$59.95



POCKET STUN GUN

Smallest, lightest stun gun available. Weighs only few ounces and less than 4 inches long. 50,000 volts of power. #SH1.....\$59.95



SUPER BATON

Awesome 90,000 volts of stopping power. Will intimidate most attackers without contact, "Hot" down the shaft as well as contact probes. 18 inches long. #OM-3......\$119.95



9-Volt Ni-Cad BATTERY

and CHARGER KIT

#UNT3.....\$16.95



Includes a loud, piercing alarm siren, a high intensity strobe light AND 50,000 volts of power. Newest model. #BS3......\$79.95



CAP-STUN Spray Weapon

A COMPLETELY DIFFERENT KIND OF DETERRENT SPRAY!

CAP-STUN is the instantly effective non-lethal weapon. It is the premium product of its kind available. It is an instantly effective organically based non-lethal spray. A one-second burst to the face will dilate the capillaries of the eyes causing temporary blindness. It will induce chocking, coughing and nausea, and mucous membranes will swell to prevent all but lifesupport breathing, giving rapid "knockdown" and preventing further aggressive activity.



#I D5

CAP-STUN acts as an inflammatory agent, rather than an irritant like Mace and tear gasses. CAP-STUN will even control subjects such as persons not able to feel pain, persons under the influence of drugs or alcohol, psychotics, and dogs.....all areas where Mace and other products are notoriously ineffective. CAP-STUN canisters contain a solution of 1% oleoresin capsicum derived from hot peppers as the active ingredient. The propellent blend and valve design provide the proper spray pattern in a cone-shaped mist with an effective range of 10 feet. The formula in CAP-STUN will not decompose, degenerate or otherwise be altered by age. All effects are strictly temporary and will disappear within 30 minutes. CAP-STUN is now being successfully used as a non-lethal weapon by over 500 law enforcement agencies. Although designed for and used primarily by law enforcement, CAP-STUN is an ideal personal weapon and is now available from GUARDIAN Products to the general public. CAP-STUN is designed to replace chemical Mace and other tear gas products and comes in four sizes for all needs. Each CAP-STUN comes complete with leather holster.

| # L. O | | |
|--------|--------|---------|
| #LP1 | 3/4 oz | \$14.95 |
| #LP2 | 2 oz | \$22.95 |
| #LP6 | 4 oz | \$25.95 |

1/2 07

\$42 DE

Big Catalog \$1.00 Free with Order

Ordering Information:

By Mail: Use coupon or separate sheet, Include check, money order or credit card information.

By Phone: Call 1-800-527-4434 Have all product and credit card information Arizona residents call 1-602ready. 371-1023.

Satisfaction Guaranteed! Dealer inquiries invited:

Mail In Orders:

We Ship UPS

Send check, MO or charge information to: **Guardian Security Products**

4001 East Fanfol . Dept. AS1 Phoenix, Arizona 85028

Charge Card Orders: TOLL FREE

1-800-527-4434 in Arizona (602) 371-1023

We Accept VISA, MASTERCARD

| Qty. Number | Description | Pric |
|--------------------|-------------|-------------------------|
| Credit Card Number | | SubTotal Shipping \$3.5 |
| Expiration Date | Money Order | Total |

marternaste



ALICE FIELD GEAR AND CARRYING EQUIPMENT
Military all-nylon load bearing gear is ready for action. The OLIVE GREEN models are
Military Spec issue quality. Our CAMOUFLAGE and BLACK items are made like the issue models. Belt Attaching Clips are provided where necessary. Select from: (1)Camo, (2)OG, (3)Black. Affordable gear for the outdoorsman.

A. COMBAT BUTT PACK

Fit your gear in 670 cubic inches. Attaches between suspenders and pistol belt, carry with web handle or attach double hook strap for use as a musette bag. Size: 10"x10"x6" tapers to 4" [7 oz] ALC-228() \$12.95

B. LC2 EQUIPMENT BELT

Heavy duty 21/4" nylon web with eyelets for the old frogs. Plastic quick release buckle. [15 oz] NPB-81, LC2 Belt, Medium OG, \$9.95 NPB-82, LC2 Belt, Large OG, \$9.95 NPB-813, Black Pistol Belt Lg., \$9.95

C. LC2 BELT SUSPENDERS

Rugged load bearing harness is a must with any field equipment. Metal and nylon clips for attachment. Regular size adjusts. [12 oz] (2)OG & (3) Black EBS-85() \$12.95

D. LC2 CANTEEN COVER

Mil-spec fleece lined cover holds 1 quart canteen and cup. Fits any belt [6 oz] CCR-82() \$6.95

E. GI PLASTIC CANTEEN, 1 QT.

Heavy duty with 2-piece cap assembly. [2 oz] (2)OG & (3)Black NSN 8465-00-889-3744 PCQ-82() \$2.00

F. SHOTGUN BOX POUCH

Insert a standard box of shot shells in ou pouch for convenient access in the field. Fits our Earsaf hearing protectors and other small items [3 oz] PEM92() \$6.95

G. LC2 1ST AID/COMPASS POUCH

Accessory pouch fits lensatic compass, 1st aid dressing, or cigarettes. Single attaching clip fits anything Size: 5"x4", [2 oz]

ALC-229() \$2.95

H. GI CANTEEN CUP

Stainless steel issue. New surplus. [9 oz] PCQ-83 \$8.95

I. LC2 MAG POUCH

Heavyweight nylon pouch holds 3, 30 round cartridge magazines. Quick release snap. (2)OG, or (3)Black only. [7 oz] ALC-230()

I. SHOTGUN AMMO POUCH

Originally designed for point men in 'Nam. Adaptable for pistol belt or regular belt use. Holds 12 shells for the "Old Hawg's Laig". Size: 6"x3"x1½". [3 oz] ALC-112() \$7.95

K. PISTOL MAGAZINE POUCH

Holds 2 pistol mags for the .45 auto Browning HP, S&W etc. [3 oz] ALC-145() \$6.50

L. J80 UTILITY POUCH

Handy single snap pouch 6"x4" flat [3 oz]
ALC-180 \$3.95

M. 175 CARRYALL POUCH

Size: 6"x6"x1¾", Snap closure [4 oz] ALC-175() \$5.00

N. ALICE ATTACHING CLIPS

Replacement clips for the field gear. Pack of 4. Made in USA to MIL-SPECS. [4 oz] ALC1502 \$2.99



GI ANGLE FLASHLIGHT

Military issue model MX-991/U is a great all-around utility light. Improved water resistant style has protective 'ears' to keep switch from being damaged. High impact plastic body has spring clip for attachment to your belt, pocket, or web gear. 3 position switch with flasher button. Compartment in base holds spare bulb; 1 clear and 2 colored lens. Hanger loop. Uses 2 'D' Cells (not incl.) (2)Olive Drab (3)Black [8 oz] LIT-991() \$6.95 LIT-991()

GI LIGHT BELT POUCH

Special design protects your angle light and assists in keeping it secured to your gear. ALICE attaching clip included. (1)Camo (2)Olive (3)Black [2 oz] FC100() \$4.95

DID YOU KNOW!

Many of our Pouches are designed to use ALICE ATTACHING CLIPS. This gives you added flexibility to use these items on pistol belts, regular belts or attachment to web gear and load bearing harnesses. Uniquely



GET IN ON THE SURVIVAL ACTION WITH BRIGADE'S SURVIVAL ACTION GEAR

FREE one year's subscription to Brigade Quartermasters' ACTION GEAR catalog of clothing, equipment and accessories for the serious survivalist. military man or woman, law enforcement officer, or all-around world adventurer with

any purchase from this section of \$50.00 or more. Get in on Brigade's Survival Action Gear. Order NOW and get your FREE subscription. Starting with our latest 92-page ACTION GEAR CATALOG.





)marrennaste

VIVAL ACTION GEAR

Special Brigade Quartermasters Catalog Preview.

For More Than Twelve Years, Our Catalogs Have Been a Prime "Source" for Survivalist, Military, Law Enforcement and Outdoor Adventurer's Action Gear. If You Like This Preview, You'll Want The Entire 92-page Catalog. Turn The Page For Details.

B. MAMBA **FOLDER II**

Patterned along the lines of its full size brother, the one hand Mamba is a jewe to open with either hand. Quick, quiet and dangerous. Specs include: Knurled thumb knobs AUS 8A Carbon steel blade · Textured polymer

handles • Positive blade lock • Closed size, 43/8"; Blade, 31/2"; Thickness, 5/6". [6 oz]. Made in Japan. BlackJack. \$69.95 M41497



A. MAMBA BATTLE BLADE TM

Six years of development by Mike Stewart produced a large outdoor knife that handles camp chores, skinning, spearing and defense equally well. The scientifically engineered blade shape delivers constant cutting power at any contact point, without fatigue. Lug guards are notched as lashing points for spearing. Top lug functions as a cap lifter; the bottom as a can opener. Handle is molded Kraton rubber with a snake skin texture for a rock solid grip, chemically bonded to the full tang and stabilized by three hollow rivets. The one piece of special carbon steel takes and holds a keen edge. Complete with a military style black leather sheath that can be worn several ways. Specs: Length overall, 15"; Blade 9"; Thickness .250"; False cutting edge, 3"; Height of blade, 1½"; Weight 18 oz. BLACKJACK Knives. [26 oz] M21915 \$149.95



CHRIS REEVE SOUTH AFRICAN BUSH SURVIVAL KNIFES

Unquestionably the strongest and most thoroughly tested bush warfare survival knives in the world. Each is handmade from a solid bar of D2 tool steel that is milled, ground and turned to create a one-piece knife of unequal-led strength. Used by South African Defense Forces and hunters in equatorial Africa.

The unique construction creates a watertight compartment in the handle that is O-ring sealed with a removable aluminum butt cap. All blades are hollow ground and heat-treated to Rockwell c57-58. Kal-Gard protective coating produces a matte black durable finish Custom high-grade cowhide belt sheaths finish these handsome knives. Imported.

C. REEVE AVIATOR

Compact, lightweight version for aircrews or your survival pack. Metal cutting sawtooth back and bowie style blade are very effective. Unique leather pancake sheath. Specs: Overall, 8"; Blade, 4". [12 oz]

MK14 \$159.95

D. REEVE MARK IV

Bowie style blade with forward weight to cut and chop effectively. Metal cutting sawtooth back. Specs: Overall, 121/4"; Blade, 7". [1 lb 14 oz] \$199.95 MK27



E. REEVE SHADOW II

Traditional spear-point bowie has nice forward blade balance for chopping and hacking. Excellent for field chores. Specs: Overall, 12¼"; Blade, 7". [1 lb 15 oz]

MKRR \$199.95



BUSHMASTER JUNGLE KNIFE™ AND SHEATH

Skillfully engineered by David E. Steele from the classic 3rd Century B.C. Kopis fighting/utility knife used by Alexander the Great's troops. A completely no-nonsense design that works exceedingly well in all terrains – tropic, desert, arctic. The Bushmaster actually cuts while chopping. Perfect for machete style clearing and chopping like a hatchet. Strong con-

struction and well balanced for maximum power. Special sheath is made of virtually indestructible DuPont D.K.E. plastic with a wide belt loop. Specs: Overall length 14%", Blade 10". Material: Stainless steel alloy. Handle: Pachmayr type hard rubber. Weight: Incredible, 13% [16 oz] \$58.95 M11760

MASS





A. WILDERNESS SIGNAL KIT

Make your whereabouts known in any terrain and in any weather. Used by professionals. Each kit contains: Ten mile mirror, 30 second smoke unit. Fire starter kit, 2 Skyblazer flares and carrying pouch. A must for all sportsmen & pilots. Size: 5"x3"x2". [6 oz]

SSK-1 \$19.99 Flares and Smoke Sent UPS Only





CYALUME® LIGHTSTICKS

Chemiluminescent light without heat, or spark or flame. Perfect for emergencies or hazardous atmospheres.

Non-toxic, non-corrosive, lightweight, windproof, waterproof, and safe anywhere. To initiate light, simply flex the 6" plastic tube. Shelf life 4 years. General Purpose 12 hour lightstick glows for 3 hours and half light for 9 hours.

Bright Lightstick produces 30 minutes of bright yellow light for use in emergencies or evacuations. Every home, auto, or business should be

equipped with these. [1 oz] CYA12, GP Lightstick CYA30, Bright Lightstick

\$2.45 \$2.95



DUCOVER

POCKET STROBE

New survival rescue strobe meets these requirements. Visible for many miles at

night Uses an inexpensive D Cell Waterproof assembly.
 Xenon lamp module produces a brilliant light and flashes 24 hours. High visibility orange case features heavy duty 'safety pin' holder. (Battery not included). Made in USA. [4 oz] GTP988 \$19.95

Mail to:



Canned smoke generating compound is ignited with a pull. Produces a dense orange smoke visible for miles. A must for rescue operations or marking drop zones. Select 30 or 60 second

burn time [2 oz]
SSG-302, Skymark 30 Smoke, 2 Pack \$8.99
SSG-60, Skymark 60 Smoke, Single \$6.99

C. SKYBLAZER AERIAL FLARES

Self-contained Flare/Launcher is ignited by pulling the chain. Visibility exceeds 20 miles at 300' altitude. Burnout safély occurs at 100' above ground. Totally waterproof and floatable. A requirement for all travelers and aircraft. Packed 3 to a zip lock bag. Skyblazer Red Flare (10,000 candlepower), Skyliter White Flare (40,000 candlepower).

[3 oz/pack] SKB-20, Skyblazer® Red SKB-21, Skyliter® White

\$15.99



D. SURVIVAL SIGNAL MIRRORS

Rescue kits should include Signal Mirrors. Select either Genuine GI issue or imported models from Japan. Made of tempered laminated glass with a special aiming grid, lanyard hole, and instructions printed on the back.

SMS-201, Signal Mirror T1 Import
SMS-207, Signal Mirror T1 Import
SMS-207, Signal Mirror T2 Import \$5.50 \$9.95 SMS-352, Signal Mirror T2 USA \$11.95

E. BRITISH PERRY WHISTLE

Internationally known lifeboat signal. Simple plastic design has no moving parts to jam or break. Made in England. Two per pack. [2 oz] WHM-15 \$2.95

F. GI THUNDERER WHISTLE

Regulation polystyrene plastic with an attached lanyard. Emits a curdling loud noise. One should be carried when hiking in the backcountry, or downtown late at night. [1 oz] WHM-11 \$2.65

G. GEAR & PISTOL LANYARD

Our GI nylon pistol lanyard makes a great whistle tether. 72" Long. [1 oz] CBS450 \$3.50

ORDER TOLL FREE

Brigade Quartermasters, Ltd. MONDAY-FRIDAY 1025 Cobb International Blvd. Kennesaw, Georgia 30144-4349 8:30 AM - 9 PM EST 404/428-1248 SATURDAY 10 AM - 4 PM Department 66-



FIREFLY® STROBE LIGHT

The flashing rescue light is standard GI issue in practically all miltary pilots' survival kits and vests. Hundreds have been rescued thanks to the superpowerful Zenon® Strobe Light. The Firefly's brilliant white flash — 250,000 peak lumens — is visible for 15 miles at a search altitude of 1,500'. The SDU-4F flashes 50 times per minute for 9 hours of battery life. The rugged resin casing is totally waterproof. Size: 41/4x21/2x1'. [4 oz], Battery [1 oz]. A must for aviators, mariners and adventur-

SDU-5E, Firefly Strobe w/Battery SDU-5B, Firefly Mercury Battery SDU-5C, Firefly LC2 Nylon Pouch

FIREFLY® FLASH DIRECTOR

A must accessory for ground to air signaling. Plastic housing shields flash from ground observation and prevents night blindness. Firefly stores inside the housing. Military issue Olive Drab. [2 oz] SDU882 \$12.50

\$5.95

FIREFLY® NYLON POUCH

LC2 style pouch will hold the Strobe, Flash Director, and spare battery. ALICE clips permit attachment to LBE and all belts and vests. (02)Olive Green (03)Black [2 oz] SDU58() \$6.95



WHISTLING BOOBY TRAP SIMULATOR M119

WHISTLING BOOD TIKAP SIMULATOR MITS
Noise making simulator used with the US Army for
ambushes. Device comes complete with wire, spring, staples
and nails for setting trip wires. When activated, the simulator
functions immediately and screams like a Banshee for 2½ to
5 seconds. Safe for personnel within 1½ Feet. Do not initiate
while holding in the hand, injury will result. Pack of 5. Instructions enclosed. UPS only. [1 lb 4 oz]
L11607 \$29.95

ILLUMINATING BOOBY TRAP M118

GI ground flare ignites instantly when the trip wire is activated. Burns brightly for 20 to 28 seconds. These are excellent perimeter warning devices for anti-intrusion. Mil-spec new manufacture. Pack of 5. Instructions included. UPS only [1 ib 4 oz] Adults only L11606 \$29.95

To make your purchasing even easier, charge on VISA, MASTERCARD, AMERICAN **EXPRESS or DISCOVER** cards. We'll handle all the details and speed your order on the way. FAST!

When ordering, make sure you ask for your FREE 1-year subscription to Brigade's ACTION GEAR catalogs. Starting with our current 92-page catalog.



VISA"

Combat Encounters (Continued from Page 33)

strike, the upward elbow, gets its power from the circular motion of the elbow, forward and up. The striking surface is the point of the elbow. The elbow is the body's second most powerful natural weapon (after the knee) and its force was increased by the momentum of my entire body weight as I stepped forward. Had I hit with full force I would most likely have broken one or more of his ribs. Since my intention was only to shake him up I hit with less than full force.

The second strike, the eagle's claw, is formed by thumb and index finger. Strike forward like a snake and grab the back of the larynx, behind the thyroid cartilage. Squeeze the two fingers together to control and immobilize your opponent. Maintaining this tight squeeze while pulling back rapidly destroys the breathing structure and causes almost instant death.

These two strikes, together with the threat, took the steam out of a wouldbe tough guy and caused him to retreat. Psychology, expressed in words or in attitude is an important part of effective self defense and the psychology behind my threat influenced his decision to retreat rapidly.

If you analyze the three encounters I just described certain principles of combat karate spring forth:

- 1. Spontaneous reaction to an attack.
- 2. Powerful strikes to key targets.
- 3. Proper use of body mechanics to develop optimum striking power.
- 4. Controlled force to obtain desired results. (e.g., in the first encounter I hit the vagus nerve rather than the Adam's apple. Had I hit the Adam's apple with this much force I might have ruptured it, causing death. In the third encounter, I hit the ribs with less than full force and I did not pull the windpipe out.)
- 5. Accuracy of Strikes. Because of constant, repetitive drill I had developed my accuracy to a very high level.
- 6. Aggressive response. I "attacked the attacker."
- 7. Use of Psychology. I knew when to threaten with words and I had conditioned my mind to respond with instant anger whenever anyone attacks me or anyone dependent on my protection.

Using those principles will help you to survive if you ever have to put your life or the life of a loved one on the line.



McSweeney ducks under the punch in a low horse stance



McSweeney pivots into a right bow and arrow stance while striking the ribs with an upward



After the elbow blow the left hand delivers an "eagle's claw" to the thyroid cartilage (use extreme caution).

KATADYN **POCKET FILTER**



The Katadyn Pocket Filter is a Swiss-made device that clarifies raw water and instantly removes all harmful cocci, bacteria, protozoa, fungi, cysts including Giardia and parasites by microfiltration through a 0.2 micron microporous ceramic filter element. No chemicals are added or removed. A silver lining fixed to the inside of the ceramic element prevents the growth of algae or bacteria into the surface, keeping it free from contamination. Will operate many years with daily use. Full flow is quickly restored by wiping or brushing off the filter element and can be repeated hundreds of times before replacement is necessary.

The Pocket Filter is standard issue with the International Red Cross and NATO. Essential equipment for backpackers, globetrotters and survival kits. Built-in pump produces 1 quart/ minute of safe drinking water. Includes carrying case, cleaning brush and instructions. 10" long, 2" diameter, 23 ounces. Full money-back guarantee.



PROVISIONS UNLIMITED

P.O. Box 456, Dept. 400 Oakland, Maine 04963 (207) 465-3212

| Katady | n Pocket | Filters | at | \$175.00 |
|----------|------------|----------|----|----------|
| - raiday | 11 , 00100 | 1 111010 | ~ | 4 |

each postpaid.

Check or money order enclosed □ VISA □ MasterCard

Exp. Date_____ Signature _____ Name _

Address ___ City _ Zip State __

☐ Send for free brochure of high quality water solutions.

Clothing Systems:

Cold Weather Layering

New fabrics and technology to keep you warm...



Stay warm and comfortable in below zero conditions by using the layering system.

By Scott Stoddard

I was taught the layering system years ago when I first got into backpacking. It's a very old idea to wear lots of clothes when you are cold and remove them layer by layer as you get warm. We used some fairly inexpensive and basic garments for our layering system in the beginning. The basic outfit consisted of: waffle-type long johns, wool shirt and wool pants from the Army/Navy surplus store, a wool sweater and cap, a down vest when we weren't hiking, and a windbreaker or

60/40 wind parka with hood. A poncho was also handy in the event of a mountain thunderstorm.

How does our "basic outfit" compare with what's available today? The modern-day layering system uses the same basic ideas as the old, only the fabrics and materials used today are lighter and less bulky and warmer when wet.

Mountaineers experience extreme differences in temperature. While on a trip up Mt. Whitney, elevation 14,495 feet, we were base camped at 12,000 feet

in an area resembling a lunar landscape devoid of trees and most plant life. During the day the temperature inside our dome tent was well over 110 degrees. Nearby in the shade of a granite outcropping the thermometer read 55 degrees. That night the mercury dipped to 12 degrees Fahrenheit.

The layering system allows you to regulate and compensate for two factors involved in your outdoor comfort. The first is the *outside* environment including air temperature, wind and



Lightweight polypropylene underwear and a shell jacket might be all that is required during heavy exercise. Extra layers should be stowed in a day pack should conditions change.

possible wetness. The second involves your *inside* environment — the amount of heat your body produces through chemical reactions in your muscles and the amount of moisture produced to cool that excessive heat.

Physical exertion with too many clothing layers will cause the inside temperature to rise to uncomfortable levels causing lots of perspiration. Too few layers with little or no activity and your body becomes chilled. The blood is constricted to the body's core leaving the fingers and toes with little warmth. Shivering begins in an effort to create more heat.

Clothing does nothing to create warmth. It only serves to dispense or conserve the heat your body produces. With today's modern materials clothing can also be used to keep your body dry. Not only from the outside effects of rain and snow, but from perspiration caused inside by physical activity. New fabrics are being invented that can wick away this moisture from your skin and prevent the rapid cooling that evaporating moisture causes. Other materials are being made for improved insulation qualities and wind and rain protection.

It is useful to classify clothing in four layering categories, according to their principle function: (1) The underwear layer for maintaining a comfortable climate next to your skin; (2) the insulation layer for keeping the heat in; and (3) the shell layer which protects against wind, rain, snow and sun.

Underwear Layer — I used to think long underwear was used mainly for increased warmth, especially when out in the snow in frigid weather. Before high-tech synthetics, we would wear cotton-waffle long johns. As long as we were dry this was O.K. but get wet or start to sweat and say good-bye to warmth. Cotton is one of the worst fabrics to wear in the winter. Cotton loves water and sucks it up like a thirsty camel in the desert. It takes forever to dry and wet cotton sticks to the skin, conducting heat away from the body and forcing evaporation to occur right at the skin's surface. Your best bet is to save cotton for the hot summer or your next trip to the tropics.

Wool is even more absorbent than cotton, however, wool doesn't collapse when wetted so it still provides insulation in wet environments. Like cotton, wool dries very slowly. Although wool is a good natural material for winter clothing, it is not a good choice for underwear. Many people can't stand its itchy texture next to the skin.

The only other natural fiber used for winter underwear is silk. Silk feels wonderful next to the skin and provides more warmth than any other natural fiber except wool. The drawbacks are its price and its slow drying time. If you don't plan on perspiring heavily, silk would be a good choice if cost isn't a problem. It wicks away moisture and reflects body heat quite nicely.

The synthetics are the most functional and probably the best winter underwear available. All are variants of polyester and are made to wick moisture from your skin. The wicking process subtracts moisture without subtracting heat the way evaporation does. The fabric spreads the moisture over a larger area where the air can get to it.

Polypropylene is perhaps the best known of the synthetics. It dries very fast and won't cling to the skin when wet. One of the disadvantages of polypropylene is its low melting point, which means it must be washed in cold water and line-dried to avoid shrinkage. Also, it is an oil-loving material. Oil and dirt tend to want to stick around even after washing, so this underwear begins to smell after a few days in the field.

A new generation of polypropylene has been designed with some of these disadvantages removed. Lifa Prolite 5000 is one of these. It can be run through both the washer and dryer and will not retain odors. With more fibers in each strand of yarn the result is a softer and more durable fabric.

Capilene by Patagonia is another improved synthetic. Capilene polyester wicks moisture off the skin better than silk, wool, and even polypropylene. The fibers are constructed so that water will climb between them (capillary action).

It also wicks through "spreading action." The water molecules are attracted to the molecules in the solid fabric. Instead of beading up, it spreads out and dries faster. Capilene doesn't stain and it resists perspiration oils. It remains soft and pliable and can be laundered at any temperature.

(Continued on page 48)



Capilene long underwear, a wool shirt, fleece jacket and a 60/40 jacket make up a good layering outfit.

Saxon Arms:

The Avenger



A lightweight crossbow with power and reliability. . .

Staff Evaluation

THE Avenger crossbow by Saxon Arms Inc., has an all aluminum alloy frame contruction making it a light and comfortable crossbow to take out into the field. With its standard bipod cocking stirrup, we found the Avenger's full 150-pound draw weight was quite manageable and its fiberglass prod delivered lots of punch.

The sighting system consists of an adjustable front pin and a rear sight with rotary click-stop controls for windage and elevation. After only a few minutes to adjust the sights and get used to the trigger pull, we were able to make consistent hits on our target

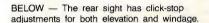


The Avenger crossbow weighs in at only six pounds, two ounces. Overall length is 31 inches.



ABOVE — We found that recoil was slight but that the bolts hit the target with considerable force

RIGHT — The front pin sight is adjustable for elevation









Two dead-center hits illustrate the Avenger's accuracy.

placed 30 yards away. We were very pleased with its performance. The string shows almost no perceptible wear and when fired there was little noise or vibration.

Other important features include an automatic safety catch, tough non-chip paint, and an optional scope available. A folding stock model is also ready for sale. The Avenger would make a fine sporting and hunting weapon and is available for \$175 from Saxon Arms Inc., Dept. ASG, 615 Jasmine Avenue North, Suite "J," Tarpon Springs, FL 34689; (813) 938-4882.





Thermax hollow fibers mimic polar bear fur, the warmest of all natural fibers.

Du Pont has come up with a new fabric, Thermax, with fibers patterned after polar bear's fur, the warmest of all natural fibers. Thermax fibers are hollow and also crimped. They don't bunch together and so excess body heat and sweat move easily through the fabric. It is probably the most breathable underwear on the market — a very good choice for runners or cyclists who train on colder days.

When buying underwear for your layering system, be sure to buy the tops and bottoms separately to be sure of a good fit. Another problem with all long underwear, especially when worn under knitted or woven pants, is its tendency to bind. By wearing a pair of nylon-Lycra tights against your skin, you will reduce the friction of underwear against skin, and also add a little more warmth.

Insulation layer — The natural fibers for suitable winter insulation include wool and goose down. If you don't mind the moisture loving qualities of wool, a few Pendleton shirts and some wool sweaters make nice insulating layers for your winter clothing system. What you don't want to do is spend a lot of money on a fat, high-loft goose down jacket. Instead of being able to regulate your temperature by removing layers, a big down jacket will leave you cooking inside, or after removing it, chilled to the bone. I recommend down for non-activity periods like cooking or wandering around camp. The lesser thickness of a down sweater or down vest would be more suitable for hiking or cross-country skiing.

Natural goose down is one of the best insulators. It is extremely light

and it can compress into a very small space. When wet though, it loses a great deal of insulating ability. Be sure to dry down sleeping bags and clothing in the sun so that consecutive days of winter perspiring won't begin to catch up with you.

Companies like Du Pont and 3M have been designing synthetic insulating fibers for years. One of my first sleeping bags was made with a synthetic called Dacron 88. Later on PolarGuard was invented. PolarGuard does not collapse like down when wet. It offers more protection than down when damp, but if soaked — forget it. The effect of evaporation will completely overwhelm any residual insulation provided by the PolarGuard. The key to any insulation layer is to keep it as dry as possible.



Wool shirt, pants, cap and gloves are good insulators. A lightweight down vest provides additional warmth.

Other fibers that have been developed are Hollofil 808, Hollofil II and Quallofil. These fibers have holes running down their entire length that provide insulation. While Hollofil has a single hole, Quallofil has four holes running down its length making it more thermally efficient than Hollofil II on a weight basis. None of these fibers absorb water into their holes. Quallofil seems to be the best design yet. The four hole construction allows the fiber to be crimped differently than Hollofil, giving Quallofil better drape and compressibility.

Synthetic fabrics have been developed that have a high warmth-to-weight

ratio, absorb little water, dry very fast, and are quite soft. Polyester pile, first used by Scandinavian fisherman, is made by blowing slivers of loose fiber into a coarsely woven backing material. The slivers form loops and slightly raised surfaces that trap warm air. Patagonia has a new pile called Retro Pile. It doesn't pill as badly as their old pile jackets although it does clump. With the shaggy side on the outside you end up resembling a mature sheep.

Fleece is a similar fabric but with the fibers all woven in. It is not as warm as pile and it won't pill like pile does. Synchilla by Patagonia, Polarplus Fleece from Marmot, Armadilla Polar-Plus Fleece from The North Face and Chinella from Walrus are all similar products.

Shell Layer — To combat the hostile effects of wind, rain, and snow, you need a good shell garment that repels water and prevents the wind from stealing away your inside heat. A truly waterproof shell will keep the water out fine, but it also keeps moisture in. Begin to hike or work in a completely waterproof jacket and soon it will feel like the everglades inside.

In an attempt to overcome this problem, Gore-Tex was invented. There were early problems with its design but now it seems to do a good job of keeping you dry. Gore-Tex contains 9 billion pores in every square inch of fabric. The microscopic holes are too small for water drops to enter and are offset to prevent wind from rushing in. At the same time, perspiration vapor can escape naturally through the fabric and keep you comfortable.

While Gore-Tex is the ultimate in high-tech shell material (NASA uses Gore-Tex in its spacesuits) many people favor the simplicity of waterproofed fabrics and ventilation systems using zippers and velcro to control inside moisture. Coatings such as Du Pont's Zepel and Patagonia's SealCoat when applied to tough nylons will totally block water droplets and water vapor.

Patagonia has also come up with coatings that try for the "breathable/water-proof" ideal. H₂NO, H₂NO Plus, and H₂NO Storm are coatings — a mixture of chemicals with characteristics similar to Teflon that are applied wet. As it covers the surface, it foams, causing microscopic bubbles that evenly

(Continued on page 66)

RVIVAL SUPPLIES



600+ ITEM CATALOG OF HEALTH & SURVIVAL PRODUCTS

- Food Storage
- Food Preservation
- Food Preparation
- Water PurificationWater StorageEmergency Protection
- Supplies
- Homesteading Supplies
- Wilderness Supplies
- Hunting Equipment
 Sanitation Equipment
 Underground Shelters
- & Equipment
- Books, Herbs & More

Send \$2.00 to: THE SURVIVAL CENTER P.O. Box 707, Dept. 129 · Ravenna, OH 44266 Call Toll-Free 800-321-2900 • Ohio 216-678-4000

with Saw Teeth

with combat sheath.

1988 SHOMER-TEC CATALOG NOW AVAILABLE

Send today for this new 64-page catalog with a unique line of security, survival, military and law enforcement products.

For your copy, send \$2.00 (deductible from first order)

SHOMER-TEC™

DEPT. ASG P.O. Box 2187 Bellingham, Washington 98227







SURVIVAL COMPANY

Specializing In Para-Military Accessories

WE CARRY:

- HK ACCESSORIES
- BIANCHÍ GUN LEATHER
- GERBER KNIVES
- KATADYN POCKET FILTERS
- KA-BAR FIGHTING KNIVES

Call for more information. Don't Wait Till The Day After - Get It NOW!

312 East Nine Mile Road Suite 11194

1-800-634-1932 in FL: (904) 484-2931

Pensacola, FL 32514 Send \$1.00 for catalog - Refund with order.

Black Falcon



German Design

ALL BLACK TOP-GRAIN LEATHER

ESPECIALLY TAILORED FOR BIG-BORE SHOULDER HOLSTER CONCEALMENT!

This is The Original
 This is The Original
 DEUTSCH KOMMANDO'
 Flight Jacket — Fully
 Lined winside Map
 Pocket, Zip Comp. On
 Sleeve, Double-Entry
 Front Pockets, HeavilyPadded Elbows

Worn By Adventurers, WEEK
Pilots and DELIVERY (Foreign — add 25%) Shipping & Ins

Soldiers World Wide

The Toughest Jacket Around

COLOR CATALOG Send Check, M.O. VISA or MC To:

CALL 15/2) 697 8900
CATTLE BARON LEATHER CO.
P.O. Box 100724, Dept. ASG-1
SAN ANTONIO, TEXAS 78201

OFFERING My Hollow Handle Survival & Combat Knife

Non-Glare Mat Combat Finish 440 C Blade

That Work! 13" overall length. \$225.00 All stainless steel construction

KNIVES By Robert Parrish Custom Hand Made Knives 1922 Spartanburg Hwy, Hendersonville, NC 28739 Phone (704) 692-3466. Send \$2.00 for catalog.

SUPPORT YOUR AMERICAN SURVIVAL GUIDE **ADVERTISERS**

Wholesale To The Public...

UP TO OFF

100 Pages! S.M.K.W.'s Colorful 1988 Catalog features all types and brands of knives. Write today.

SMOKY MOUNTAIN KNIFE WORKS P.O. Box 4947AS, Sevierville, Tennessee 37864

SURVIVE!



Exotic and Functional Gear, **Genuine Military** Clothing and Equipment for **Outdoors, Survival** and the Streets. **Best Quality! Right Prices!**

Send \$3.00 for Your Copy Of Our Current 136 Page Color Catalog.

U.S. CAVALRY

Department AS1 2855 Centennial Ave. Radcliff, KY 40160-9000

STATE OF THE ART DESIGN



AT-22 .22 L.R. Semi-Auto Carbine

FEATURES

- LATEST IN DESIGN FEATURES
- LIGHT WEIGHT
- RELIABLE
- 100% MADE IN U.S.A.

ULTIMATE FIREPOWER!

THE NEW **SAR-180** .22 L.R. Semi-Auto Carbine

- **FEATURES** 165 Round Inverted Drum Magazine
- Precision Machined Receiver
- 100% Made In U.S.A.
- Very Rugged Design

for FREE INFO:

Feather Industries, Inc. 2300 Central Avenue, Suite K Dept. ASG-1 Boulder, CO 80301 (303) 442-7021

AMERICAN SURVIVAL GUIDE/JANUARY 1989 49

Harvest Valley:

Food Insurance

A wide variety of low moisture, long-term storage foods...





ABOVE - Some of the storage foods available from Harvest Valley.

LEFT — Jay Tims of Harvest Valley Foods stands next to the Deluxe One Year storage food unit.

Staff Report

"A LL of our products are packed in the finest cans available, enamelized inside and out to protect against rust, then nitrogen flushed to protect the contents. We use only the finest air dried foods," says Jay Tims, owner of Harvest Valley Foods in Salt Lake City.

Harvest Valley, through its network of dealers, offers a large line of low moisture, long-term storage foods, including year's supplies and 72-hour food units and other food and survival products.

"Nothing lasts forever," Tims says.

"It's always much easier to replace a can of egg mix once a year than to let your food storage sit for 30 years and find that it will no longer fill your needs because of age, or that you don't know how to use it." Tims and his wife Debra recommend that people rotate their storage food supplies as needed, consuming those items that will not keep any longer and replacing them with fresh items.

How long will Harvest Valley storage foods last? "A lot depends on your storage practices and how you care for your food. Always try to keep your food at 69 degrees or less."

All vegetables and fruits should last 10 to 15 years and dairy products, egg mix, non-fat milk, margarine powder and cheese blend should last 6 to 9 years, according to Tims. There are specific recommendations for storage life and use of other food items Harvest Valley offers, such as its granola (5 years).

Harvest Valley has a 9-case year's food supply unit and a deluxe 11-case year's supply unit. There are also 72-hour emergency supply items including survival candy, Spark Lites, water jugs, camp stoves, an emergency radio and 72-hour kit and family instruction book.

Harvest Valley Foods is seeking new customers and dealers. For information on where to purchase their products or on how to become a dealer, contact Harvest Valley Foods, Dept. ASG, 266 East, 500 South, Salt Lake City, UT 84111; phone (801) 363-9103.

TIMBERSHEPHERD® TIMBERWOLF/GERMAN SHEPHERD HYBRID

As featured in SWAT MAGAZINE, Nov. '83. Survival Guide Magazine, Aug '84, American Survival Guide Magazine, Feb. '87, Cover feature story ATLANTA WEEKLY Atlanta Journal-Constitution Sunday Magazine, Jan 31, 1988

Home & Family Protection

All Trainers Dept. of Defense Certified. -Pups & Professional Training Available -Lifetime Replacement Guarantee for Genetic or Temperament Disorders.

—Excellent With Children—

Shipping Available Worldwide "Developed and Bred Solely by".

LRRP SECURITY SERVICES, INC. Box 1620 SG, Alken, S.C. 29802 1-800-648-3351 (24-hour)
- SEND \$3.00 U.S. FUNDS FOR BROCHURE-

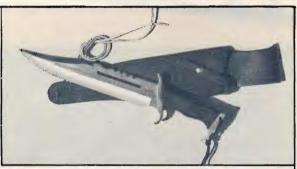


RAMBO III

Custom Designed 11" Surgical Steel Bowie Blade Hardwood Handle Heavy Duty Handguards Sure Grip Lanyard Hole Leg Tie Down Genuine Leather Sheath

CUSTOM DESIGNED SURGICAL STEEL BOWIE BLADE

Your Cost \$95.00, Includes Shipping & Handling In The U.S.A. 30 day money back guarantee. C.O.D. charges \$2.20. Checks and MC, Visa held 2 weeks to clear. Send to:



A REPLICA OF THE KNIFE USED BY SYLVESTER STALLONE IN THE FILM. DESIGNED BY GIL HIBBEN.

Sreat Lakes Distributing 600 W. Orange, Greenville, Michigan 48838; (616) 754-6694

FEEL SAFE ON THE STREETS AGAIN! LEARN THE GREATEST SURVIVAL SYSTEM EVER DEVELOPED.

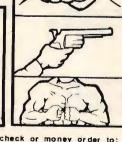
McSweeney's Self-Defense A Complete Personal Protection System

Internationally-known Martial Arts Mastar, Founder of Karate in Ireland, and 5th degree Black Belt, John McSwaeney will teach YOU the most effective self defense teachiques.

unarmed tapes you laam to hit vital points with power that stops

The armed tape develops proficiency with some of the deadliest weapons, Hendigun combet shooting amploys a PROVEN method which guerantees securacy in firing most Moves covers nine specific strikes which are far more effective is any boxer's punch or 'Sport Karate' strike.

he Tiger Moves axercise tape enables you to develop a powerful muscular mysique, and to maintain a healthy body, by working out only 10 minutes a



| | | | | | | VHS | BETA. | |
|-----|---|-------------------------|----|------|---------|-----|-------|-----|
| APE | 1 | UNARMED SELF-DEFENSE | 90 | min. | \$49.99 | | | 56 |
| | | | | | | | | Yu. |
| APE | 2 | UNARMED SELF DEFENSE | 90 | min. | \$49.99 | П | | 1 |
| | | | | | | | | |

TAPE 3 SELF-DEFENSE 60 min. \$49.99 Vise and Mestercard accepted.

TAPE 5 TIGER MOVES EXERCISE PROGRAM

TAPE 4 POWER STRIKES 60 min. \$29.99

30 min. \$19.99

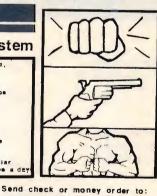
CITY VIDEO PRODUCTIONS P.O. BOX 1218 N. RIVERSIDE IL 60546

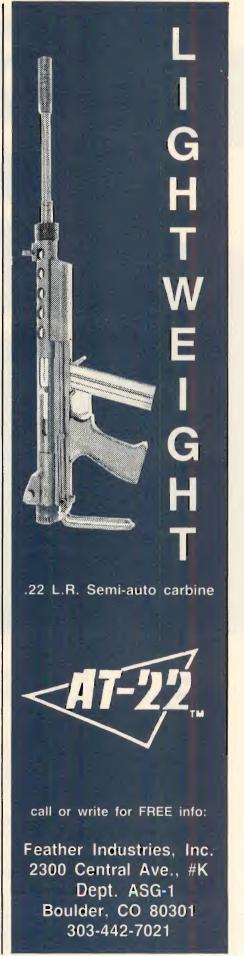
312 915-0220

Numb er ADD \$3.00 SHIPPING AND HANDLING ILLINOIS RESIDENTS ADD 7% SALES TAX

thru Jan. 31, 1989

ALLOW 6-9 WEEKS DELIVERY.





ASG 1989 Giveavay No. 1

will out the accompanying coupon, and include payment with subscription orders or current subscription extensions. All ASG 1989 Giveaway No. 1 entries should be printed or typewritten on the official coupon. or a reasonable facsimile from this magazine. A facsimile entry is acceptable and valid, as long as it contains information required with the subscription or extension order/entry form. The ASG Giveaway is open to any resident of the United States. Federal law requires that only U.S. citizens are eligible to receive a firearm prize. The prize winner must not be legally restricted from receiving or possessing a firearm. This contest offer is void where prohibited by law. Employees of McMullen Publishing and its subsidiaries or subordinate agencies, agents and members of their immediate families, are not eligible to enter the contest. There is a LIMIT OF ONE ENTRY PER PERSON for this contest. Duplicate and/or multiple-

copy entires, when detected, will be disqualified and discarded. The prize winner will be selected in a random drawing of the coupons submitted for this contest. The drawing will be conducted at 2 p.m. April 28, 1989. Entries received after April 27, 1989 at 4 p.m. will be invalidated and discarded, though subscription orders will be honored by McMullen Publishing. The prize winner will be notified by telephone and/or mail within one week of the drawing, the firearm prize winner will be required to arrange with a local federally licensed firearms dealer to accept delivery of the prize. The winner will be required by the firearms dealer accepting the prize to fill out all necessary federal, state and/or local firearm purchase and/or transfer forms. To receive this prize, the winner must meet ALL federal, state and/or local requirements for firearms ownership. The winner must be 18 years of age or older. NO EXCEPTIONS.

LIMIT: ONE ENTRY PER PERSON

☐ Enter me in ASG's 1989 Giveaway No. 1 and record my new subscription at \$21.95 for 12 issues. Payment is enclosed.

☐ Enter me in ASG's 1989 Giveaway No. 1 and extend my current subscription at \$21.95 for 12 additional issues. Payment is enclosed.

☐ Enter me in ASG's 1989 Giveaway No. 1. I do not wish to order a subscription.

McMullen Publishing, Inc., accepts no responsibility, and refuses any and all liability for mishap and/or injury that may arise or result from any use whatsoever of this prize after it is awarded to the winner and transferred to the winner from McMullen Publishing, Inc., or other firm, company or contest donor agency.

| ADDRESS | | | |
|----------------|-----------------------|-----|--|
| CITY | STATE | ZIP | |
| AGE (Optional) | OCCUPATION (Optional) | | |

The recipent of this prize must be a citizen of the United States and must be 18 years or older. The recipient must be legally able to receive and possess this firearm. Proof of residency and age may be required.

Include the words: ASG 1989 Giveaway No. 1 on your entry envelope, please!

Mail this coupon to: AMERICAN SURVIVAL GUIDE 1989 Giveaway No. 1 2145 West La Palma Ave., Anaheim, CA 92801

PRIZE NO.

TZ-75 Series 88 9mm Parabellum (NATO) semiautomatic pistol from F.I.E. Corp., Dept. ASG, P.O. Box 4866, Hialeah, FL 33014; (305) 685-5966. The TZ-75 Series 88 is a redesigned, upgraded version of F.I.E.'s popular TZ-75 9mm auto pistol which itself is a variant of the famous Czech CZ-75 pistol. With a slightly different shape and heavier with stronger steel than used in the original TZ-75, the Series 88 pistol has a frame mounted sear locking safety permitting the gun to be carried "cocked and locked" with a round in the chamber. There is also a Colt style automatic firing pin locking safety in the Series 88. Its barrel swells at the muzzle, improving lock-up and overall function and facilitating threading to accommodate a muzzle compensator. Grips on this gun are rich walnut but also available are rosewood, ebony micarta, black checkered rubber, checkered, smooth or scrimshawed ivory polymer. The Giveaway gun finish is satin blue. Other finishes available are matte chrome and combination chrome frame and blue slide. The Series 88 is made by Armi Fratelli Tanfoglio SPA of Italy for F.I.E. Retail value about \$450



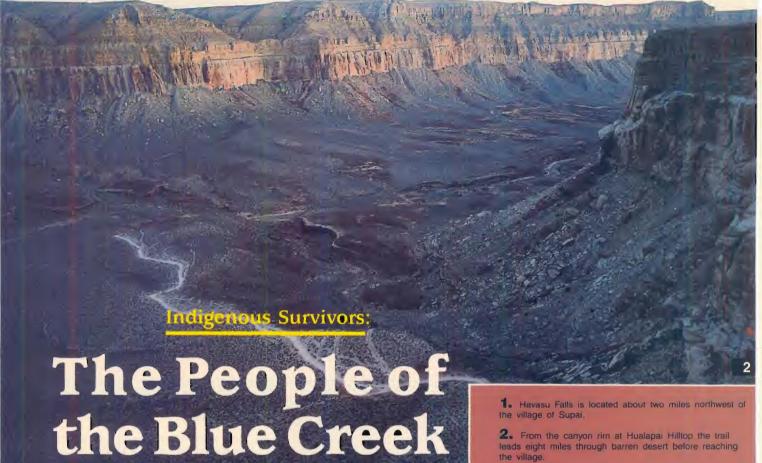
PRIZE NO. 2

The R.S.I. Field PAC Kit emergency first aid kit from NITRO-PAK Storage Foods & Emergency Supplies, Dept. ASG, 11018 E. Rosecrans Ave., Suite 300, Norwalk, CA 90650; (213) 929-4705. This compact kit provides the paramedic, E.M.T. or first responder with the equipment and supplies that are immediately needed for comprehensive emergency care at any scene. The kit has been proven through its extensive use by all phases of Emergency Medical Services, military and government agencies for more than five years. Each item in the kit has been selected for its exceptional quality and suitability in the emergency environment. The four main compartments have each been organized according to standard emergency care priorities and there is enough space remaining for individual preference or local protocols to include medications, I.V. sets or other additions. The kit is housed in a detachable backpack system in bright orange which can be carried like a suitcase or worn like a pack. Retail value: \$325.

PRIZE NO. 3

The Tigershark bowie knife from SOG Specialties, Dept. ASG, P.O. Box 1006, Santa Monica, CA 90406; (213) 451-4292. Ground from a select high carbon stainless steel custom smelted and rolled for SOG Specialties, the 9-inch long, .250-inch thick blade of the Tigershark combines handsome grind lines and custom quality rolled edge with faceted reinforced tip. Heat treated to a Rockwell hardness of 55-57, the blade is easily honed regardless of environment. The handle is molded Kraton and completely surrounds the tang. It has ribbed finger grooves and checkering to ensure a firm grip and includes a lanyard hole. The knife comes with the elegant, very strong black leather sheath shown and carries SOG Specialties' lifetime guarantee of satisfaction. Value is \$140.







leads eight miles through barren desert before reaching the village.

3. Pack trains are often encountered as you make your way down the narrow canyon.

4. A Supai packer, lariat in hand, drives his horses up

5. Camp fires are not permitted in the campground. Backpackers will need to bring chemical stoves to heat

6. Mooney Falls and the surrounding canyon viewed from the cliff's edge.

Hidden canyons, Shangri-la waterfalls, and the Havasupai tribe...

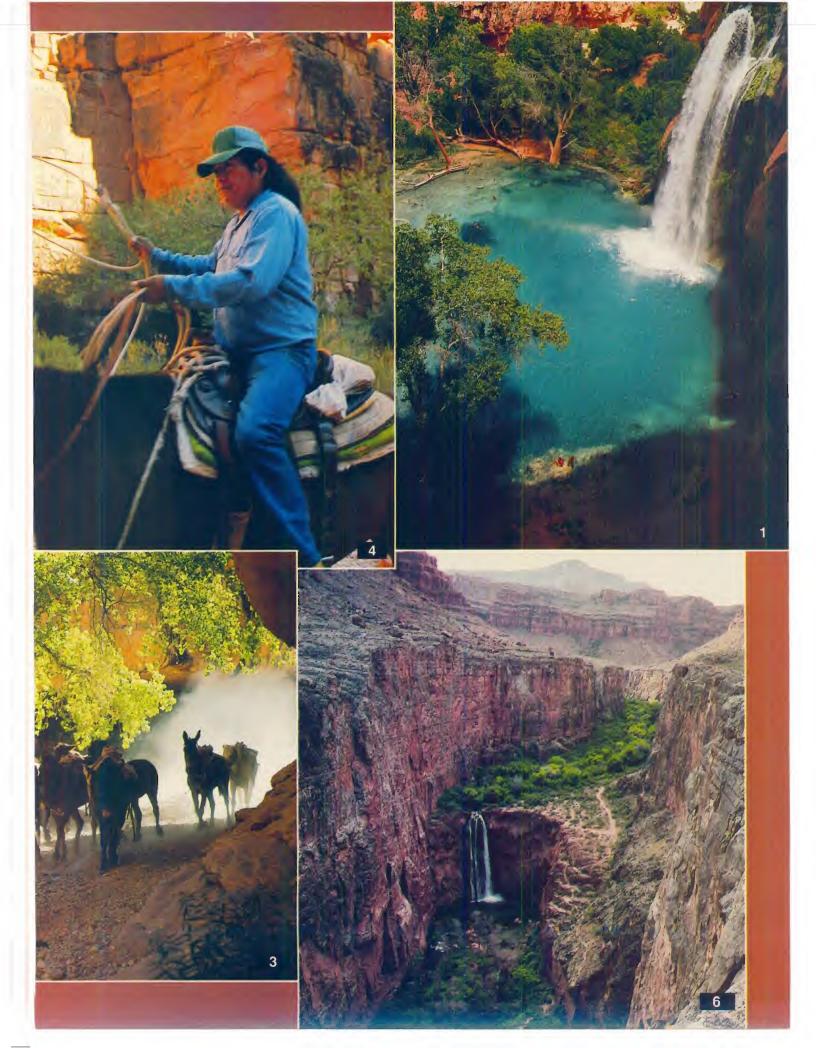
By Scott Stoddard

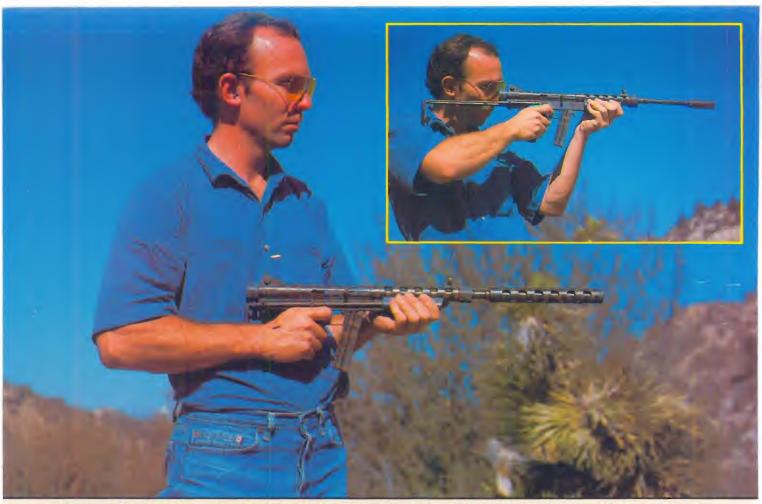
idden amid a wilderness of rock river cut plateaus and narrow gorges found to the south of the Grand Canyon, live a small tribe of Indians known as the Havasupai. The word Havasupai means "the people who live at the place which is green." It is often translated as the "the people of

the blue-green waters," referring to the creek that flows through their narrow canyon. Standing on the canyon rim, eight miles away and 3,000 feet above their village, you see nothing but an arid, desolate expanse of open space, sun bleached cliffs and red sandy washes.

(Continued on page 60)

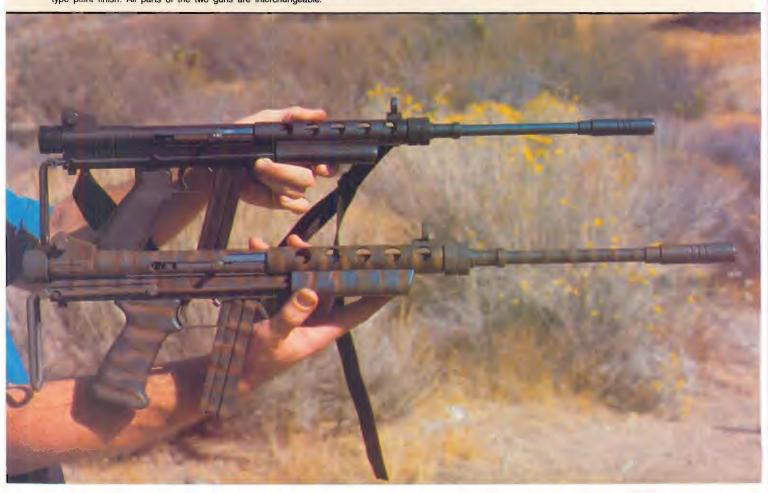






ABOVE — The KG-22 is fired at chest level with stock retracted and the barrel fitted with optional ventilated shroud. INSET — With the standard muzzle end attached to the barrel, the KG-22 is fired from the shoulder with stock extended.

BELOW — The KG-22 is identical to its predecessor, the AT-22, except for the Kal-Gard dry-lube coating of the KG-22 parts and camouflage, tiger stripe-type paint finish. All parts of the two guns are interchangeable.



KG-22 Carbine

No-lube, camouflage version of the AT-22 rifle...

Staff Evaluation

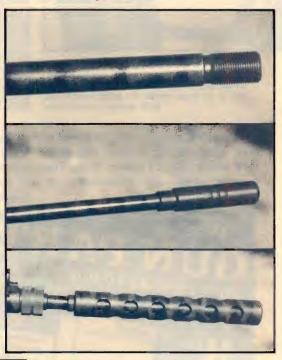


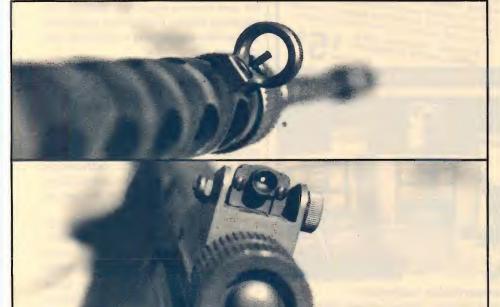
RIGHT — The barrel is threaded at the muzzle and the standard muzzle end can be removed and replaced with an optional ventilated barrel shout (retail price is about \$44).

LEFT — Among the optional equipment available for the KG-22 is the ventilated barrel shroud and padded camouflage nylon carrying case.



The wire stock, when extended, adds 9 inches of length to the KG-22.





The front sight is a post with protective ring. Rear sight is a click-adjustable aperture.

HEN we reviewed the AT-22.2LR carbine in this magazine three years ago (December 1985) we found it to be a lightweight (3.25 pounds empty), well made, accurate and reliable weapon which fires all types of .22LR ammunition.

We're pleased to announce that this same carbine is now available with all of its parts treated with the patented "Kal-Gard" no-lubrication finish and the outside surfaces have a tiger stripe-type camouflage pattern paint which has been mixed with the Kal-Gard finish.

The KG-22, as it is called, is identical to the original matte black finished AT-22 except for the dry lube process used on the parts and camo paint. All parts of the two guns are interchangeable.

The receiver is precision machined



The safety is a military type designed for quick disengagement. When in the SAFE position it can be felt as you attempt to engage the trigger. A flick of the finger moves the safety lever to the FIRE position, shown here.

from aircraft aluminum. The barrel is removable and the weapon will store in a space only 17 inches long. The weapon strips and reassembles in seconds without tools.

| KG-22 Car | rbine: Tech Specs |
|-------------------|---|
| | |
| Caliber | |
| Operation | blowback |
| Type of fire | semiautomatic |
| Lengths: | |
| Stock retracted | |
| Stock extended | 35 inches |
| | |
| Weights: | |
| | 3.25 pounds |
| | 3.5 pounds |
| | 20 rounds |
| | front ringed post, rear adjustable aperture |
| . 55 | \$299.95 |
| Manufacturer | Feather Industries, Inc., |
| | Dept. ASG, 2300 Central Ave., Suite K, |
| The second second | Boulder, CO 80301; |
| | (303) 442-7021 |

The Kal-Gard dry lube finish is also used on parts of the U.S. space shuttle, according to Merv Chapman, president of Feather Industries, Inc. of Boulder, Colorado, which makes the AT-22 and

KG-22. The Kal-Gard finish process differs from other dry lube type finishes in that it is much stronger, says Chapman, and it will last much longer. All parts of the gun, inside and out, are dipped in the Kal-Gard chemicals and then baked. It requires tremendous pressure to remove the finish and it should last a lifetime, according to Chapman.

With the Kal-Gard finish, the gun is cleaned with a standard solvent or soap and water and then wiped dry. That's it. There is no oil of any type used. Since no oily substance is used to lubricate the parts, they perform better and there is much less fouling and jamming during firing since unburned gunpowder cannot mix with the oil and gum up the works.

Taking the KG-22 to a public shooting area we loaded up with some Winchester Super-X high velocity and PMC Zapper standard velocity .22 Long Rifle ammunition and tried the gun out on targets about 25 yards distant. We went through several boxes of ammunition and never encountered a malfunction of any type. The gun performed flawlessly, and we found it to be just as accurate as the AT-22.

The KG-22 has a suggested retail price of about \$60 more than the standard AT-22 but you are paying for that great dry lube finish and camo paint job. We think the difference in price is well worth it. Ask your gun dealer about the KG-22 and look one over. You'll like what you see.





BEAUMONT, CA 92223 (714) 796-0098



RARE DISTRIBUTORSHIP OPPORTUNITY

No "franchise fee" to get started. No minimum or maximums. (WE NEED DISTRIBUTORS — WE CAN'T COVER ALL TERRITORIES, SUPPLY THE DEMAND). Mail coupon now for the details. Find out how you can have the power to literally freeze food prices for millions!

NEW THEFT-PROOF POLYMER SURVIVAL GEAR HOPPER FOR ONLY \$49.95.*

*FOR AN EVEN BETTER OFFER, READ ON...

Delta's lightweight, high-impact polymer survival gear chest resists chemicals, salt spray, corrosion, severe cold, and it's virtually theft-proof. An internal locking device interfaces with a baseplate allowing the chest to attach to jeep, boat trailer, ATV, camper or pickup with confidence. At 2.5 cu. ft. it holds a ton of gear, too. Size: 32"L x 151/8"D x 133/8"H. Reg. \$54.95. Your price with this ad, \$49.95, plus a FREE year's subscription to our ACTION GEAR catalog of survival, military, law enforce-

ment and out-2.5 CU. FT. door adventuring clothing, equipment and accessories. Limited offer, so order today. J91216 \$49.95 P&H \$4.50 Send check or money order to: **Brigade** Quartermasters ACTION GEAR 1095 Cobb International Blvd Kennesaw, GA 30144 404 428-1234 Dept 66Q



KNIFE THROWING

· ANCIENT ART

 MODERN SPORT, DEFENSE & SURVIVAL SKILL

Arm yourself with this extensive collection of hard to get books on the subject.

KNIFE THROWING - A PRACTICAL GUIDE by Harry K. McEvoy. The author, founder of the Tru-Balance Knife Co. has coached and demonstrated knife and tomahawk throwing for more than 30 years. Weapon choice, how to, accuracy, tomahawks and bowies, professional practice and hunting\$6.95 KHIFE THROWING PROFESSIONAL STYLE by Harry K. McEvoy. 22 pages, 16 photos\$4.00 KNIFE AND TOMAHAWK THROWING by Harry K. McEvoy.

KNIFE THROWING by Blackle Collins. This famous knife designer not only deals with the latest effective techniques for sport knife throwing but then instructs on the application to hunting, survival, and knife fighting. 31 pages, 29 photos \$6.00



SILENCERS FROM THE HOME WORKSHOP

Plans, instructions, parts list, parts source. Genuine suppressors, not copies of old patents or useless drawings. 51 pages, 46 photos and \$8.95 drawings.

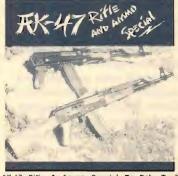
SURVIVAL BOOKS

11106 MAGNOLIA BLVD., N. HOLLYWOOD, CA 91601-3810 • ATTN. DIRK (818) 763-0804 OPEN 7 DAYS

Prices subject to change . Catalog \$2.00 • Orders paid with money order or credit card sent immediately, personal check orders held 4 weeks.



Danner "C" Fort Lewis Go Devil Boots Gore Tex Issue. REG. 159.95 SPEC.149.50



AK-47 Rifle & Ammo Special By Poly Tech AKS-762 Wood Stock w/spike bayonet, 3 thirty round magazines, web sling, cleaning kit and oil bottle. REG 439.50. SPEC. 339.00

AKS-762 Side Fold w/ 3 thirty round magazines, web sling, cleaning kit and oil bottle. REG. 419.50. SPEC. 329.00

7.62 x 39mm Match Manufactured in China. Copper washed steel casing. Packed on 10 round stripper clips. Case lot of 1,100 rounds. REG.189.99. . . . SPEC. 129.50

PURSUIT WEAPONS, ACCESSORIES AND COMPLETE SURVIVAL GEAR BUY FACTORY DIRECT AND SAVE

TANTO



Original Bowie Knife by "Cold Steel" 14 1/2" length overall. High carbon steel with black

Reg. 175.00 Special 124.95

Special 189.95

TIGER STRIPE Standard Handle

Original Vietnam Pattern Worn By Elite Military
Units. Military Specifications
Jacket xs thru xlg. \$34.50
Pants xs thru xlg. 6 pockets. \$34.50
Navy UDT/Seal Swimmer Shorts, Tiger Stripe
or Kahki. \$19.50
Navy Seal Swimmer T-Shirt, Reversable Bouble Weight, blue/gold w/seal emblem \$19.50
Jungle Boonie Hat Vents & Draw String; Patrol
Hat or Beret \$13.95

STUN GUN 50,000 Volts of Defense, uses 9 volt Nickel Rechargable Battery, Size 2 1/4" x 6" REG. \$69.95 SPEC \$59.95 Black Nylon Holster \$9.95 Xtra Battery w/recharger \$19.95



Barnett Trident Crossbow, World's most Popular Crossbow Pistol REG 139.95 SPEC.119.88 Accessories available also

GROUND ZERO

MANUFACTURERS, IMPORTERS & WHOLESALERS 255 WOLFNER DR. FENTON, MO. USA 63026

SEND \$3.00 FOR CATALOG FILLED WITH 1127 UNUSUAL HIGH-TECH ITEMS A MUST FOR THE HARD

CORE SURVIVAL ENTHUSIAST

| | 50.00\$4.0 to \$100.00 | | 00 & over\$7.50 o in parts\$9.50 |
|------------------|---------------------------|------------------------|-------------------------------------|
| Oty. | Number | Description | Price |
| - | | | |
| | | | |
| ☐ Maste | erCard 🗆 V | isa 🗆 Discover Total | |
| | | Postage & Handling | |
| Credit C | ard Number | Sales Tax | |
| Expiration Check | on Date Enclosed | ☐ Money Order ☐ C.O.D. | |
| Name | | | |
| Address | | | |

_ State__ ORDER LINE OPEN 9-9 M-S Central Time. Prices subject to change without notice. 1.314-343-3466 1-314-343-9466 FAX 314-343-4965

The People of the Blue Creek

Riding down on horseback or backpacking down on your own two feet is the only way to get to the remote village of Supai. From the rim, a long, weary trail follows a dry wash down through red sandstone walls and eventually connects to Cataract Canyon. It is near this junction where springs of water bubble up from the gravel marking the birth of Havasu Creek.

As if by magic the bleak dry desert is transformed into a green oasis. The cottonwoods flicker their leaves as the river gurgles and ripples past the garden plots and pastures of Supai village. The water temperature maintains a constant 70 degrees and a high mineral content gives it a blue-green

Because the village is surrounded by a double row of cliffs several hundred feet high, pack animals and helicopters offer the only transportation into the settlement. The only vehicle in town is a tractor. Horse traffic is regulated by a sign posted near the Havasupai Tourist Enterprise office which reads, "Speed Limit 10 MPH." Besides the tourist office, the main buildings of the settlement include the tribal grocery store/post office, the cafe where you can get an ice cold lemonade, and the grade school. The remaining lands of Supai are dotted with wood-frame houses, pasture and garden plots.

Continuing the hike down the narrow canyon from Supai, a series of waterfalls with emerald and turquoise colored pools are sheltered by cottonwoods and willows. Navajo Falls, the first of the series is overgrown by thick, almost jungle vegetation: ferns, snarling tree roots, mosses, and a multitude of willows.

Havasu Falls, by far the most inspiring of the falls, thunders 100 feet into an enchanting blue-green pool. Here the water's carbonate of lime content has formed cascading jacuzzi pools that are very popular with tired backpackers.

Havasu creek continues on for another half mile past the campground until you come to a two hundred foot precipice where Mooney Falls plunges in an unbroken sheet of water. The deafening thunder and the clouds of spray do plenty to intimidate those descending the limestone cliffs. The Indians named the falls "Mother of the Waters," but the official name comes from prospectors who long ago watched an adventurer named Mooney attempt-

ing to descend the precipice hand under hand on a rope. He became giddy and fell to his death on the rocks below. Today a trail takes you down through two short tunnels and with the help of anchored chains it is possible to safely reach the basin pool below.

From Mooney Falls the hike is another 10 more miles through dense vegetation and multiple river crossings to reach the Colorado River and the heart of the Grand Canyon. The Havasupai seldom traveled past the "Mother of Waters" believing that spirits of the dead sometimes float up and down amid the mists and rainbows, or that animistic demons lurked in the green shadowy depths of the chasm.

The Havasupai have long been a self-sufficient people, combining the settled life of the agrarian with the nomadic life of the hunter and gatherer. Corn was their primary crop and was usually planted in April or May. Using simple irrigation techniques they flooded one section of land after another. Two days later corn was planted after soaking the seeds over night. A digging stick was used to loosen the soil to a depth of about eight inches. A hole was left two to three inches deep. Before placing the first seed in the hole, the planter said a prayer. He then dropped six to ten kernels into the hole. Before filling in the hole with soil, an additional kernel was chewed and then blown toward the two white marks on the canyon wall representing the original ancestor ears presented to the Havasupai by their mythical heroes. The rest of the field was then planted without further ceremony.

Other plants that were grown included squash, pumpkin, sunflower, cotton, gourd, lima beans, kidney beans, and devil's claw which was used in basketry. After the harvest most food stuffs were dried to provide lightweight, storable food for the winter months of hunting and gathering on the plateau.

One observer remarked, "As jealously as the Havasupai guarded their canyon and as passionately as they loved it, the tang of autumn in the air turned their thoughts to a winter home on the mesa, and started them packing their possessions with a happy abandon. All summer they had prepared for this — harvesting, preserving their food, and setting aside a portion to take with them... Nothing could be permitted to interfere with this jaunt



Travel by horseback is one of the few ways of getting to Supai.

to the outside... when I saw their childish delight as they made their departure, ponies loaded with cumbersome bundles, I knew that they were motivated by the very human desire for change, to get outside, where they could look about, with the full sweep of the vaulted sky above, with endless miles in which to wander. Not an Indian who was physically able to ride but longed for this trip to the mesa."

It was during this time on the mesas that the Havasupai women gathered seeds and nuts to supplement their food supply. Pinyon nuts were a favorite source of fats and protein. In September the green cones were collected and heated over a fire to open them up so the nuts could be collected. Most of the harvest came later in the season. Pinyon nuts were also a source of income and could often be sold to Anglo stores throughout the area.

Other wild seeds were collected and stored in baskets made by the women. Wild sunflower, Indian millet, peppergrass, mutton grass, Indian wheat, tansy mustards, blazing star and walnut were gathered for winter use.

When the winter snows came the men prepared to hunt. Both large and small animals were used for food. Hunting sticks or clubs were used for rabbit, porcupine or bobcat. Sometimes birds and rabbits were felled by a wellthrown stone or with the help of a sling. Dead-fall traps and snares were also used.

When hunting larger game the Havasupai used the bow with a sinew string and arrows made of hard woods such as serviceberry. Pronghorn used to be plentiful in the lightly forested plains south of the Grand Canyon. Hunters would use a disguise to attract the animals. Wearing a stuffed pronghorn head and with his body painted white, the hunter would hold two sticks as front legs. He would then prance around imitating the creature's habits by shaking the head and playing with bushes. After attracting their attention, curiosity did the rest. The pronghorn actually came to him! With quick action the hunter would take out his bow and bring down several using stone tipped arrows.

After the pronghorn population dwindled, deer became a more important source of meat. Other animals used for food included the bighorn sheep, burro, horse, elk, mountain lion, and cattle.

Because wintering in the canyon meant very little sunshine, the plateau was a warmer area to weather out the cold winter months. Still the Havasupai needed fire to keep warm and to cook their food. They used two methods for fire building. The bow-drill method which used a fire board, bow and drill to create friction, and the strike-a-light method, similar to the flint and steel methods used in colonial times.

The materials used for strike-a-light were difficult to obtain. The equipment—cotton tinder in a hollow tube, and pieces of chert and flint—was kept in a special container of deer or pronghorn skin. The cotton was raised especially for this purpose from seed acquired from the Hopi. The cotton

was twisted into loose threads with the fingers and then braided into a thick cord about a foot long. This was then threaded into the hollow tube which was usually the femur of a bobcat. To create a fire, the charred end of the cotton wick was pulled out of its protective tube and held together with the chert, in one hand, and a spark was struck with the flint held in the other hand. When a spark was caught in the cotton tinder it was blown into a flame and then used to start other tinder on fire. Afterwards the wick was pulled back into its protective tube, which extinguished the flame.

Once a fire was built it was usually kept burning. When fire wood was limited, or when it was necessary to change camp, a firebrand was made. This consisted of a spiral coil of juniper bark tied with yucca. The ends were set on fire and kept smoldering by blowing them at intervals. Fire could be kept with this method from dawn until noon. The Colorado was called "The River of Firebrands" by the early Spaniards who found the Yuma Indians using similar firebrands to keep warm.

The Havasupai had their favorite cooking techniques and when modern utensils were available, many still preferred the ancient methods. Instead of using a frying pan, a flat rock was thoroughly heated in the fire and then pulled to one side to dust off the ashes. Meat from deer or bighorn sheep could then be fried on this hot surface.

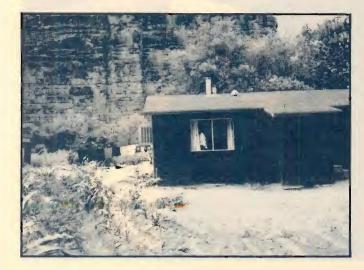
When it was necessary to boil water a big barrel cactus was often used. With the spines burnt off and the top opened up, the pulpy interior was mashed and pounded until the water stored within was separated from the soft inner tissues. Stones, heated red hot in the fire, were dropped into the water with bent twig tongs. Foods boiled in a barrel cactus took on a special flavor. Rabbit, quail, and hen eggs were often cooked by boiling. Boiling was also used in the preparation of mescal paints, arrow poisons, and medicinal teas.

Although the Havasupai have been forced to give up their nomadic ways, they are still striving to support themslves through their pack animals and the tourist business. The trip down takes about three hours and is well worth the sore muscles and tired feet. Swimming, diving, cave exploring and hiking offer plenty of adventure in a remarkable setting. Be prepared with a well equipped pack — the closest major city is over 120 miles away.

Havasupai Tourist Enterprise Supai, Arizona

For reservations call: (602) 448-2121
Reservation entry fee: \$12 per person
Nightly camping fee: \$9 per person
Roundtrip pack animal: \$90
(\$45 deposit per animal is required
prior to your arrival at Hualapai
Hilltop)

Only cash is accepted. No credit cards, checks or money orders are honored. It is suggested to hike down at dawn or very late in the afternoon to avoid the hot temperatures of the day. Carry at least two quarts of water per person.





ABOVE — The campground near Havasu Falls is shaded by a grove of cottonwood trees.

LEFT — A modern home in the Supai village. Corn is still grown in garden plots.

Cutlery Shoppe:



The Diver

Staff Report

S PYDERCO's latest addition to the popular Clipit line of one-hand opening lock-back folders is the Diver.

Weighing 7 ounces and made of electro-polished 440 stainless steel for extra corrosion resistance, the Diver has a 3-inch serrated blade with line cutter on the top of the blade. Overall the knife measures 8½ inches opened. Closed it is 5 inches long.

Besides the standard side clip for attaching the knife to a pocket or belt, the Diver has a shackle on the end of the handle for attaching to a lanyard or belt clip, etc. There is also a convenient 3-inch/9-centimeter scale on the handle for measuring game.

The new Diver knife is available for \$64.95 from the Cutlery Shoppe, Dept. *ASG*, 5461 Kendall St., Boise, ID 83706; (800) 231-1272. ●







Col. Res. add 3%

Address

(818) 842-4094

Most accurate system

available

State

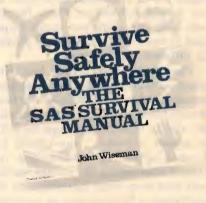
FOR PROMPT DELIVERY: Send Cash, Cashier's Check or Money Order

Type Rifle RPHEUS INDUSTRIES, INC P.O. BOX 1415 • MONTROSE, CO 81402 FOR MASTER CHARGE/VISA CALL (303) 249-0108

P.O. Box 3111, Dept. D01



SURVIVAL MANUAL



This large volume contains the complete SAS Survival Course, Written by John Wiseman who served 26 years with the Special Air Service (SAS) and was head of Survival Training.

It is dedicated in preparing you to survive outdoors, on land or sea, in any weather, anywhere in the world.

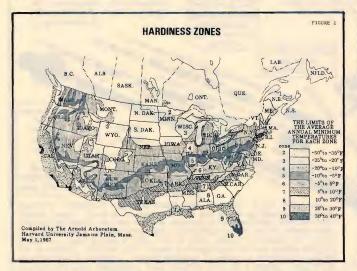
Literally thousands of detailed illustrations are packed in over 280 pages of this informative study on survival. Full color illustrations depicting edible and poisonous plants, poisonous snakes and reptiles, dangerous insects, dangerous sea creatures and even medicinal plants are included.

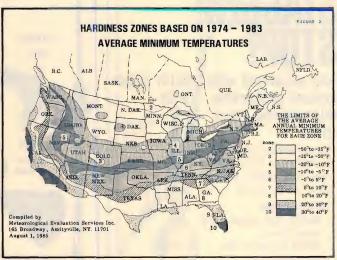
From improvised shelters and weapons to navigation by stars to first aid, this is the most concise book ever published on the subject of survival.

| lo. C516 - 288 pg. 9x9½ (postpa | id) Only \$16.95 |
|---|--|
| Other Titles of Interest Poor Man's James Bond C65 | DELTA PRESS (501) 862-4772 PO Box 1625 Dept SG • El Dorado, AR 71730 Visa, MasterCard, Am. Express (Include Number and Expiration) Please send copies of "Survive Safely Anywhere," #C516 @ \$16.95 ea. postpaid. Also send: |
| Complete Manual C333 | Name |
| — All Prices Include Postage — Complete Color Catalog - 112 pg \$2.00 FREE WITH DROCE | AddressStateZip |

Climate Change

(Continued from page 27)





The Arnold Arboretum Plant Hardiness Zone map was revised in 1985 to reflect a decade of colder than average minimum temperatures.

Editor Frederick I. Scott Jr., American Laboratories, September 1983.

These are a sampling of the flood of articles published in recent years on predictions about how man's production of greenhouse gases — chiefly carbon dioxide — will affect the climate. In fact, there has been so much publicity about the greenhouse effect that even newspaper articles (which are often based on the underlying assumption that readers are about as smart as the average fourth grader) assume that everyone knows what the greenhouse effect is.

But in case you've been hibernating somewhere for the past decade, a brief explanation of the greenhouse effect theory: greenhouse gases such as carbon dioxide caused by the burning of fossil fuels — coal, gas, wood, etc. —rise into the atmosphere where they form an invisible window (like the windows of a greenhouse) that traps heat radiated from the earth that would normally escape into space, resulting in higher average temperatures on earth.

If you've been following the climate story for long, you might have noticed one glaring contradiction. Back in the 1970s, the prevailing opinion was that the earth was cooling, headed for another ice age. The popular books on the subject such as What's Wrong With Our Weather?, The Weather Machine and The Weather Conspiracy, The Coming of the New Ice Age, predicted a major cooling threat in our time.

Now in the 1980s, all you hear about is the greenhouse effect. You read arti-

cles stating, "The gradual warming of the earth is inevitable... all scientists agree that a gradual warming of the earth is inevitable and that a rise in sea level will likely result." Greenhouse warming is in; ice age is definitely out.

So what happened? Was there a decade-long heat wave that changed the climate prognosis? No. Actually, recent years have seen some of the *coldest* temperatures ever recorded in the U.S., which led to a downward revision of the Arnold Arboretum Plant Hardiness Map, one of the two major maps used in the U.S. to recommend plants for different climate zones.

"The most recent decade has witnessed some of the coldest temperatures recorded in National Weather Service history, not only in extreme minimums, but also in monthly averages as well as season extremes," says Mark L. Kramer, consulting meteorologist, in a paper announcing the revised hardiness zone map. Sixty-three percent of the National Weather Service stations recorded new record low temperatures or matched record lows since 1966; 50 percent have met or tied lows from 1974 through 1983.

Some of the biggest changes were in the Southeast; the northern part of Florida was reclassified to reflect numerous hard freezes which have damaged or destroyed citrus trees.

Conversely — and here's where things get complicated — the 1980s have also seen some of the highest temperatures ever recorded. These record highs led to the oversimplified and, in my opinion, erroneous conclusion that the

greenhouse effect is perceptibly warming the earth.

The statement above, that all scientists believe a gradual warming is inevitable, simply isn't true. And, despite what you'll read, it has not yet been conclusively proven that the earth is warming.

Frederick I. Scott Jr., consulting editor of American Laboratory, has been one of the lonely voices bemoaning the attention to the greenhouse effect when we should be looking at ways to prevent — or at least mitigate the effects of — the coming ice age. Scott claims that "scientists wishing to publish on the cooling phenomenon find themselves "sandbagged" by the review process, unable to publish their data and analyses. Nevertheless, there is compelling evidence that the world is cooling dramatically.

"When the research comes to constitute an apparently deliberate effort to conceal significant information crucial to the function and survival of the species...a primal scream of outrage is called for," Scott says in an editorial. "From different sources, it seems evident that a major effort is underway to direct attention away from the global climate change in process now for about the past 45 years."

Scott points out that up to the late 1970s, climatologists concluded the world was cooling, but after 1978, the greenhouse warming effect theory began to dominate. "No great breakthrough is apparent to account for the shift to emphasis on the warming theory," he says. "In 1974, the Central

Intelligence Agency issued two papers summarizing scientific literature concluding that the world was cooling quickly, expressing a potential for world chaos. In 1978, the agency's *Polar Regions Atlas* stated that the cooling trend since 1940 has had severe effects in the Arctic."

Carbon Dioxide — One fact that people on both sides of the controversy agree upon is that carbon dioxide concentrations in the atmosphere are increasing, and are likely to double sometime between 2050 and 2100. So how do Scott and other ice agers reconcile increasing carbon dioxide with the ice age theory?

John Hamaker and Don Weaver in the book *The Survival Of Civilization*, theorize that the carbon dioxide will cause a disproportionate warming in tropical areas, which will result in increased evaporation leading to more clouds covering the earth. They believe the net cooling effect caused by the cloud cover could initiate the next ice age.

Hamaker and Weaver also believe natural processes are in play here: the gradual depletion of available soil minerals by forests and other vegetation following the retreat of glacial advances triggers the cycle of events—including increasing levels of carbon dioxide—that initiate a new glacial advance.

"Evidence compiled by John D. Hamaker from his studies and experimentation provide powerful support for his conclusions that the present interglacial period is in the end of its final phase," Scott says. "If so, that end will be irreversibly and devastatingly manifest by 1990."

For the past three million years, earth has generally followed 100,000-year cycles: 90,000 years of glacial activity followed by 10,000 to 12,000 years of warmer, interglacial periods. We're currently in about year 10,800 of the interglacial period.

Some moderate climatologists — even those who believe in the warming theory — don't agree with the dramatic predictions of global disaster from greenhouse warming. Don Ahrens, author of the college textbook *Meteorology Today*, says that "gloom and doom" predictions have overshadowed more conservative views in meteorology.

"It's too early to yell wolf and start

blaming carbon dioxide for rising global temperatures and the drought," says Ahrens. "There is a vocal minority of scientists who feel that after a small increase in global temperature, the earth will begin to cool. They point to the fact that added water vapor might cause more global cloudiness, which in turn, will decrease the amount of solar radiation reaching the surface."

He says that, not surprisingly, some of the loudest predictions of greenhouse effect cataclysm have come from proponents of nuclear energy.

I wouldn't want to leave the impression that all scientists who support the greenhouse theory are dupes of the nuclear power industry. There are also other possible factors at work behind the dominance of the greenhouse theory. One is that in recent years computer modeling of climate conditions have come into vogue. Such models tend to give undue weight to the factors that can be measured, while ignoring or underestimating the environmental factors that can't easily be measured.

The computer models attempt to recreate mankind's great experiment on the plant earth. They plug increased carbon dioxide levels into a model of earth, and see what comes out. Even the modelists will tell you there are problems simulating the numerous interrelated factors that govern climate: changes in the earth's orbit, sunspot activity, the effect of clouds (this is one of the toughest, since clouds act both ways to increase and decrease temperatures on the ground), the vast ability of the ocean to store heat, the effect of dust from volcanic eruptions and man's activities, and, of course, the role of greenhouse gases to trap heat.

There's no simple recipe that adds up to climate for planet earth. In my opinion, the computer models oversimplify to the point of being worse than useless; results are grossly misleading, taking attention away from where it should be focused: on finding ways to deal with the coming ice age.

John S. Perry, reporting in the December 1985 issue of *Environment* on a major United Nations' conference on greenhouse gases, says that model experiments "continue to show a broad range of uncertainty in the impact of changes in the climate produced by greenhouse gases. The small temper-

ature fluctuations of this century suggest either a weak sensitivity of the climate system to changes in the concentration of radiatively active gases or a marked lag induced by the slowly warming ocean."

Another factor at work that could partially explain the greenhouse popularity is that it may be easier to get research funds when you predict that the greenhouse effect will cause drastic rises in the sea levels that would redraw coastlines all over the world, forcing millions from their homes. "Greenhouse effect a threat to earth life" certainly is going to get more attention—and more research money—than stating that we're in for a long chill, even though the results could be just as devastating for mankind.

One more loose end to tie up: if you take the less popular road, and stand with the ice agers, then how do you explain the high temperatures in the 1980s? Here's the answer, from an article called "Climate Change: Chilling Possibilities," published in Science News, March 1, 1975.

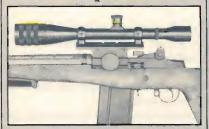
"The principal weather change likely to accompany the cooling trend is increased variability — alternating extremes of temperature and precipitation in any given area — which would almost certainly lower average cropyields," says author John H. Douglas. You could have record highs and record lows in the same year. Droughts one year; floods the next.

"Thus, while the hemisphere as a whole is cooler, individual areas may alternately break temperature and precipitation records at both extremes," Douglas says, adding that we may be approaching the end of a major interglacial cycle, with the approach of a full-blown ice age a real possibility.

He concludes that while the ice age would involve only a small change of global temperature — two or three degrees — the impact on civilization would be catastrophic.

Like Frederick Scott, I think a "primal scream of outrage" is called for. Instead of chasing the red herring greenhouse theories, we need to be studying ways to adapt to the increasingly cold temperatures and resulting disturbances such as droughts, shorter growing seasons, and increased weather variability that will accompany the return of the ice age.

M1A/M14 **Pro Scope Mount**



B-Square's new no-gunsmithing military scope mount for the M1A/ M14 rifle is quick on and off with a single knob attachment and returns to zero. It has elevation adjustment to help align hi-power sniper scopes and is see-under so the gun's sights can be used with the mount installed.

B-Square's mount has a standard dovetail and is long enough for mounting all Aimpoint and military devices. It has imporved style lines and a matte finish to match the gun.

Suggested list in only \$99.50 complete with 1-inch standard dovetail rings.

Contact your dealer!



B-SQUARE CO. Fort Worth, Texas



A 32 page mail order catalog featuring over 1500 Patches, Badges, crest, Tabs, beret flashs, hat pins, and other Distinctive Insignia. Most are from the Vietnam era to present. Also includes Vietnam, Soviet, S.A., ROC, & other Countries. Insignia from all branches of military and from all the famous groups.

*Send \$2 for 32pg color catalog -Special-also get 112pg Military catalog of other related items. CALL 501-862-1166 or Write To:

Della Insignia

P.O. Box 1565 Dept. EG 716 Harrell St. El Dorado, AR 71730





THE MOST POWERFUL NON NUCLEAR EXPLOSIVES EVER DEVELOPED!

MORE POWERFUL THAN THE C4 PLASTIC, NITROCLYCERIN OR PEXAL, ASTROLLTE G, AND ASTROLLTE ALS ARE THE MOST POWERFUL NON-NUCLEAR EXPLOSIVES AVAILABLE TODAY.

EASILY PRODUCED FROM TWO COMMERCIALLY AVAILABLE COMPONENTS, (3 FOR A-1-5), ASTROLITE EXPLOSIVES CAN BE MADE IN A MATTER OF MINUTES, AND WITH MORE EASE AND SIMPLICITY THAN VIRTUALLY ANY OTHER EXPLOSIVE KNOWN. GUARANTEED

ASTROLITE A-1-5 det. velocity 7,800 m.p.s

For Complete Manufacturing Instructions, Send \$15.00 to:

NUCLEAR RESEARCH BOX 10073 G. S. SPRINGFIELD, MO. 65808 ©1985 NUCLEAR RESEARCH





U.S.A.F. SURVIVAL MANUAL for downed pilots. urvive in hot, cold, desert, ocean, nuclear, or hos for hunters, backpackers, sportsman, etc. 121 waterproof, illustrated pages. This book could save a life! \$12.95 post paid to: MANTA ENTERPRISES, 3015 N. Ocean Blvd. 16J-FT. Lauderdale, Fla. 33308 Allow 3-6 weeks.

DO IT YOURSELF



YOUR NAME AND PHOTO SEALED IN PLASTIC!

ANY 3 KITS

It's easy to make your own Photo I D.! Our kits include everything you need! You supply only the photo. Anyone can do it — Satisfaction guaranteed! Choose any 3 Kits for only \$14.99.

- SPECIAL WEAPONS PERMIT
 - BOUNTY HUNTER
- PRIVATE INVESTIGATOR
- DETECTIVE
- STATE PHOTO I.D. (All 50 Available) MERCENARY
- INTERNATIONAL DRIVER'S LICENSE . SECURITY OFFICER
- Send cash, check, or money order to

FOOTHILLS FASTPRINT

TOWNVILLE, SC 29689



The AVENGER is a powerful crossbow featuring an aluminum alloy frame and bipod cocking stirrup as standard equipment. The 150 lb. draw weight prod ensures low drag and super-fast performance. Other features include: automatic safety catch, adjustable front and rear sights, strong and smooth trigger mechanism, tough non-chip paint, and 1 year

SPECIAL INTRODUCTORY OFFER - \$149.95+\$5.005 &H

- ORDER NOW AND SAVE - (Regularly \$179.95) Catalog - \$1.00 (refundable) Free with order. Send Check or Money Order (No CODs) - This Offer Expires 2/28/89 Mail Orders To:

MISTY MOUNTAIN PRODUCTS P.O. Box 1353, Dept. ASG, Fairfield, CT 06430

Cold Weather Layering

(Continued on page 48)

distribute over the fabric. The coating is actually absorbed into the weave of the fabric, unlike a laminate which is glued on. Next, the coating is baked. During the baking, the bubbles harden into tiny air spaces that only permit water vapor to pass through.

Suggested Personal Layering System

Here is a clothing list for a typical winter outing - a one day ski tour when the temperature is above zero:

thin polypropylene or polyester long underwear top

thick polypropylene or polyester long underwear top

fleece or pile zip-front jacket

polypropylene or polyester balaclava

fleece balaclava

wool knit ski hat

sun glasses

goggles

Neoprene face mask

pile bibs

shell pants

one pair of glove liners

one pair of heavy wool gloves

one pair of insulated overmitts

one pair of liner socks

one pair of heavy wool socks

double ski-touring boots

uninsulated gaiters

When buying a shell to complete your winter layering system, make sure it is big enough to cover all of your other layers. You don't want your arms to bind up as you telemark down the mountain on your cross-country skis.

And finally, don't forget to use the layering system on the most exposed parts of your body — your head, hands, and feet. Your head and neck radiate a lot of heat and it's important not to let that heat get away. The old saying, "If your feet are cold, put on a hat," is based on this fact. Worry about the head and central core first. This will prevent vasoconstriction (the closing off of blood) to the hands and feet.

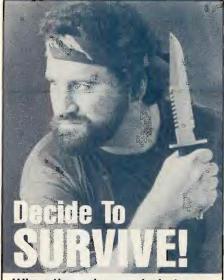
Synthetics do a great job for your feet. Their wicking ability will keep your feet dry. Thick wool socks on top will help insulate and keep them warm.











When the only margin between life & death is the equipment you use, use the best!

QUARTERMASTER MILITARY

PRODUCT

The latest in survival equipment, military clothing & elite tactical gear.

For Full Color Catalog Send \$3.00 To:

THE QUARTERMASTER

Dept. SG, 750 Long Beach Blvd. Long Beach, CA 90813



AUTHORS WANTED BY NEW YORK PUBLISHER

Leading subsidy book publisher seeks manuscripts of all types: fiction, non-fiction, poetry, scholarly and juvenile works, etc. New authors welcomed.

Send for free illustrated 40-page brochure L-117

Vantage Press 516 W. 34 St., New York, N.Y. 10001

SURVIVALIST DIRECTORY

THIS IS A CONFIDENTIAL listing of survivalists who wish to become known to others of like mind. American Survival Guide will accept properly coded mail and forward it to the coded addresses without charge. American Survival Guide accepts no responsibility for the contents or results of these confidential communications. Mass mailings are not permitted.

ASG 0100

Muscoda, Wisconsin. Young man in the Madison, Wisconsin area looking to contact any other survivalists living nearby.

SG 0101

Manchester, New Hampshire. Nationally organized survival group seeking new members from all over the U.S. Would also like to correspond with other survival oriented groups.

ASG 0102

Columbus, Georgia. Family oriented survivalist seeks to exchange information, ideas, etc. on fallout shelters, self-sufficient living and related topics with like minded individuals.

SG 0103

Thida, Arkansas. I would like to invite anyone who would like to join or just to have some information on survival or a survival group to write me. We now have two new chapters in our group. One is located in Texas and the other is in West Virginia. Thanks very much for your time.

ASG 0104

Sulphur, Louisiana. Young survival minded couple wants to start or be a part of a survivalist group made up of couples and/or families. Planning to form a retreat in the Pacific Northwest. Open to all ages.

ASG 0105

Centerville, Ohio. Attention, survivalists. We are looking for members to join a new survival club for men or women that can see that there is a need to learn combat, and other survival skills. We are in the process of building a survival retreat in Kentucky. The retreat will offer all season campsites, homesites, firm; range, war games, and fishing and hunting in the proper season.

ASG 0106

Central Massachusetts. Novice survivalist, 43, widowed male. Don't want to go it alone. Would like to join survivalist group or experienced individual with leadership qualities. Can re-locate. I offer integrity, intelligence, loyalty and a good sense of humor. I seek the same qualities.

ASG 0107

Represa, California. Anyone wanting information on a survival group please write me.

ASG 0108

Lincoln County, Tennessee. Marine reservist interested in making contact with intelligent survivalists in Lincoln County, Tenn. and neighboring counties. I have my own gear and I am trained in NBC, first-aid, firearms, and small unit tactics. I will correspond with other survivalists. No Rambos, extremists or racists please.

ASG 0109

Kedah State, Malaysia. Seeking serious individuals male/female abroad for newly based survivalist group in Malaysia and Southeast Asia. No fee. Send letter of introduction and color photo. Reply assured.

ASG 0110

Highwood, Montana. Patriotic/Christian family seeking contact/ correspondence with those interested in self-sufficient living and survival during the troubled times ahead.

ASG 0111

North Louisiana. New survivalist needs contact with others in this area for exchange of information and/or forming a group. Would consider joining an existing group but prefer family type. Need lots of information on survival tactics, supplies, etc. I am familiar with various weapons and have mechanical ability.

ASG 0112

Bakersfield, California. I need to make contact with a medical supplier for both medicines and equipment needed for a survial retreat. Also I am working on a project for the last twenty years to introduce edible/medicinal plant life into secluded areas for possible survivalist usage in the future. Need to contact others working on similar projects. Willing to barter muzzle loading guns and equipment for gear such as night vision devices, anti-intrusion devices, solar power arrays and other general items I haven't yet squirreled away.

ASG 0113

Orange County, California. Need to correspond with others in this area about plans for retreat access, communications, and disaster preparedness. Any ideas on get-away vehicles?

Want to find out if there is a survival group formed here or are there people willing to form one. Only conservative-minded individuals and families need respond. No gays, liberals, or crazies please.

ASG 011

Chattanooga, Tennessee. Now forming a Christian survivalist news letter, if you are serious about survival and freedom, you need to be a part of this newsletter/network. No fee. America must be free. No communists please.

ASG 0115

Cobb County, Georgia. Small survivalist organization is accepting applications for membership. Training will include first-aid, urban and wilderness survival, search and rescue, combat tactics, outdoor skills, etc. Ex-military personnel, and teachers of CPR, survival, or martial arts are most welcome. Membership is open to both female and male, novice and expert, all occupations and races. No communists, liberals, gays, racists or anti-Americans.

ASG 0116

Cleveland, Ohio. Serious survivalist wishes to correspond and meet with others interested in same. All letters will be answered. Please . . . only intelligent, serious-minded adults.

ASG 0117

Sylva/Jackson County, North Carolina. Husband and wife survival team wish to meet and correspond with other survivalists in Western North Carolina. We wish to exchange ideas and information based on experience as well as book learning concerning shelter construction, food and water storage, security, and establish contacts for surviving the hard times with anyone nationwide as well as local. Self sufficiency is a goal. Discretion and confidentiality are a must. Only those interested in true survival need respond.

ASG 011

United States. Professional men with backgrounds in education, finance and military subjects, are considering the formation of a survivalist organization. Membership will be open to everyone, regardless of age, sex, race, occupation, or beliefs. All activities, records, and memberships will remain strictly confidential at all times. The overall objective of this organization is to provide safety and security for our families and loved ones later.

ASG 0119

Deerfield, Florida. 21 yr. old ex-82nd Airborne (recon) striving for further knowledge in training and special crafts. Looking for merc school, or someone very qualified.

ASG 0120

Mlami — Dade County, Florida. Christian oriented individual would like to meet with others of like mind, for the development of outdoor survival skills.

ASG 0121

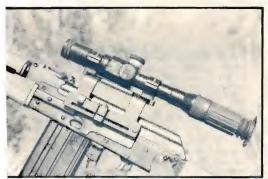
Gainesville, Florida. Florida Survival Leagure is currently forming in the Gainesville/Alachua Co. area. If you are interested in more information, send a complete resume and a letter fully explaining your areas of interest. Prompt reply and total security promised. Communists, supremacists, nazis, addicts, and gun shop commandos need not apply.

Address response letter as follows:

American Survival Guide ASG 0000 (Code Number, As Above) 2145 West La Palma Avenue Anaheim, CA 92801

Your letters will be forwarded to persons listed within two days of receipt. American Survival Guide accepts no responsibility for loss or delay of letters. Contact letters that do not carry the appropriate code number will be discarded. Those who wish to be added to the directory listing, please send names and addresses to American Survival Guide, 2145 West La Palma Avenue, Anaheim, CA 92801. The listing is free.

7.62 NATO AK-47 Rifle (Continued from page 24)



LEFT - The scope mount rail comes permanently attached to the M77B1. Here the Yugoslav 4 power scope and mount are attached to the

RIGHT - Rear and front sights with tritium night sights flipped up.







An optional military pouch that holds four extra 20-round magazines and cleaning gear.



The AK bayonet (optional) attached to the M77B1

original factory military equipment and not available on other rifles.

Manufactured for Mitchell Arms by Zavasta-Kragujevac or Yugoslav Federal Directorate of Supply and Procurement, the gas-operated, semiautomatic, closed-bolt Model M77B1 rifle can be purchased with the Model 0N3-M75 4 power adjustable scope with illuminated reticles. This scope is made in Yugoslavia for this rifle and can be purchased separately as optional equipment. It has a suggested price with mount of \$595.

We all know the AK-47 rifle is one of the most reliable weapons ever made. The Yugoslav version - the Yugoslavs are generally credited with producing the best quality AKs available - represents the most current model in production with many refinements not found on the original Kalashnikov design.

I mentioned the thicker walled receivers (actually the receivers are the "R.P.K." or AK-47 heavy barrel receivers). You are also getting a bigger, stronger bolt and bolt assembly to handle the more powerful 7.62 NATO Mitchell M77B1 AK-47 Rifle: Tech Specs

| Caliber | |
|-------------------|---|
| | |
| | |
| | |
| | 660 yards |
| | 41.28 inches |
| | |
| | 19.4 inches |
| _ | ble ringed post front, adjustable notch rear; |
| , | |
| | flip-up illuminated night sights front, rear |
| Magazine capacity | |
| | 20 rds. |
| Weight empty | |

cartridge.

This is necessary because of the substantially higher chamber pressure generated by the 7.62 NATO round as compared with the Russian 7.62 x 39mm cartridge made for the standard AK-47s and AKMs. The muzzle velocity of the 7.62 NATO or .308 Winchester round is about 50 percent faster than the 7.62 x 39 Russian round.

We test fired the Model M77B1 with Louis Mitchell of Mitchell Arms using Federal American Eagle 150-grain metal case boat tail ammunition firing from the shoulder and from a rest at targets from 50 to 150 yards.

Firing well over 100 rounds through the .308 AK we experienced no problems whatsoever, once we properly adjusted the gas port regulator, which should be set in the middle or center position of the three positions on it for this type of ammo. The first position allows less gas to enter the system for use with lightweight bullets and the last position allows more gas for use with heavy bullets.

Besides performing perfectly, the

M77B1 was very accurate. While we were still familiarizing ourselves with this new gun, Louis Mitchell was able to shoot tight groups at 150 yards with the Yugoslav 4 power scope as well as with his own Leupold 3 x 9 Compact scope.

Recoil is always noticeable with the .308 round and the Mitchell AK is no exception, but we had no problems managing recoil and muzzle rise and the gas operation moderates felt recoil considerably.

With its suggested retail price of \$775, its beauty, craftsmanship, outstanding design and performance, the Model M77B1 is sure to be a big hit among .308 enthusiasts. Also available in the same caliber by special order from Mitchell Arms are the paratrooper folding stock Model M77AB2 and heavy barrel Model M77B1 R.P.K. with detachable folding bipod. And don't forget that Mitchell Arms also offers these same types of the Kalashnikov rifle in standard Russian 7.62 x 39 caliber as well as the .22 caliber AK-22. •

CLASSIFIED ADVERTISING

BOOKS/PUBLICATIONS

UNUSUAL BOOKS — Exotic Weaponry, Explosives, New ID, Fireworks, MUCH MORE! Over 500 Titles. Huge Eye-Opening Catalog \$1.00 FREE COPY —ALPHA NEWSLETTER Included! ALPHA PUBLICATIONS, Dept. ASG, PO. Box 92-A, Sharon Center. Ohio 44272.

NEW I.D. IN AMERICA — create a new identity and get lost! This book shows you how to break with your past and be someone else — complete with bonafide birth certificate, passport, driver's license, credit cards, and Social Security Number. 5½x8½, softcover, illus., 120 pp. Send \$18.00 ppd. to: PALADIN PRESS, Dept. ASG, PO. Box 1307-8JIK, Boulder, Colorado 80306.

EXPLOSIVE FORMULA — Simple to make from easily obtainable chemicals. Powerfull No complicated lab procedures. \$6.00 ppd. MAGNOLIA PUBLISHING, Rt. 11, Box 395 Dept. ASG, Laurei. MS 39440.

KNIFE FIGHTING, MENTAL TRAINING, STREET COMBAT — Complete Certified Home Study. Books, Videos, Mini-Manuals by 8th Degree Black Belt and Chief Combat Instructor for U.S. Police Defensive Tactics Association Dr. John Laïourrette PhD. Details \$2.00 to APPLEGATE ENTERPRISES, Dept. ASG, 890 Biddle Rd., Suite 337, Medford, Oregon 97504.

SPECIAL FORCES AND SURVIVAL AUDIO CASSETTE training tapes — Operational Techniques FM-31-20. Forty Selections IE, Air OPS, ambushes, \$795 Ea + \$1.50 S&H. Catalog \$3.00 Refundable first order. SRG 1355 N. McCarran, Dept. ASG, Reno, NV 89512.

FIND ANYONE! Secretly obtain Birth/Death, DMV, Postal Confidentials, private telephone listings, court records, credit, etc. Locate lost lovers, old friends/enemies and debtors for fun or profit! Manual tells all. Send \$10 for copy of "PERSONAL RETRIEVAL" to Cromwell Enterprises, 614 W. 37th St. Suite 226, Dept. ASG, Chicago, IL 60609.

SURVIVAL PREPAREDNESS — List of FREE self-study courses on natural, technological, nuclear crisis. \$2. Books/Discounts Catalog \$1. LDW, PO. Box 611-ASG, Austin, MN 55912.

SPECIALTY PERIODICALS FOR SURVIVORS —(300+ described) and SURVIVAL FICTION (100+ reviewed) \$6.00 each, \$10.00 both! \$1.00 Stephens Press INFOPACKET included FREE! From DON STEPHENS, Drawer 1441, Dept. ASG3, Spokane, WA 99210-1441.

KEEP YOUR CONVERSATIONS PRIVATE! —Written by a fifteen year veteran in communications security consulting. This detailed "How-To" manual teaches telephone company employee basics to advanced recognition, locating, and disarming procedures of taps and room bugs inexpensively yet uncompromising. This is the most up-to-date and comprehensive manual in print today! Half hour courtesy telephone consultation with purchase of manual. Send check or M.O. for \$18.95 to: S.I.G. Company, 3104 "O" Street, Suite 175, Dept. ASG, Sacramento, CA 95816.

NEW BOOK CATALOG! — 50 page describes over 300 titles. New books published every two months. Get the best books on weaponry, revenge and dozens of other subjects! Send \$1.00 to: PALADIN PRESS, PO. Box 1307-9AIT, Dept. ASG, Boulder, Colorado 80306. (303) 443-7250.

FOOD/WATER

YURIKA FOODS — distributorships from me cost less. Yurika gourmet survival foods reviewed in 8/87 ASG. Contact: Miller, Dept. ASG, 1114 Cottonwood, Roseville, CA 95661; (916) 782-5139. Buy wholesale! \$5.00 gets sample.

SURVIVAL FOODS — The latest and best tasting food for long term storage or outdoor use. Dehydrated and full moisture (MREs). KITS —comprehensive kits designed by experts for survival, earthquakes, emergencies... SUPPLIES — light sticks, disposable hand warmers, fuel, all the latest technology for survival, backpacking, and camping. PRICES — Compare us to anyone. Send or call for FREE CATALOG — Emergency Esstentials, Inc. 3227 N. Canyon Rd., Dept. ASG, Provo, Utah 84604. (801) 373-1047.

FOOD STORAGE AND EMERGENCY PROVISIONS — The best quality from Alpineaire Food regarded as the finest dried food products available. Since 1979 — Free Catalog — ALPINEAIRE, Box 1600-G, Dept. ASG, Nevada City, CA 95959. (800) 322-MEAL.

DEHYDRATED FOODS YEAR SUPPLY —\$495.00 (801) 377-5023 FPS FOOD STORAGE, 606 West 1720 North, Suite 335, Dept. ASG, Provo, UT 84604.

ATTENTION SURVIVALISTS: — I am searching for Planters peanut nut and peanut butter cans, jars, etc; older the better. Bowman, Dept. ASG, 4215 Gallmeyer Ct., Fort Wayne, IN 46835.

WEAPONS

BE A GUN DEALER!! — Buy Firearms Wholesale!!! Kit includes license application, wholesaler directory, phone, advice on selling from home/apartment. \$5.00; Sandhill Arms, Dept. ASG-1, Box 336, Roswell, NM 88202.

FNFAL 5 or 10 Rd. — Magazines \$23.00 PPD. FAL Parts List \$2.00 (refundable) Money Orders Only. T.R. GOODWIN, 4397 W. Bethany #1330, Glendale, AZ 85301.

"SPECIAL REPORTS" — #1 "SILENCERS" #2 "ZIP-GUNS," #3 ZIP-GUNS WSILENCERS." Build at home with few tools. Complete drawings, instructions, parts list/sources included. Simple to build, safe to use, and very very effective. All parts available from local stores. Professional Quality, (Free Catalog), (\$12.00 EA. /Cash, M.O. ONLY) Mr. T.D. Clark, 1102 S. Nevada Ave., Dept. ASG, Colorado Springs, Colorado 80903.

KNIVES YOU CAN DEPEND ON — Hand forged, high carbon steel, differential temper. Finest quality; reasonable prices. Catalog \$2.00. MARTIN KRUSE, Dept. ASG, PO. Box 487, Reseda, CA 91335.

NEW GUN LAW JUST PASSED. — ATLANTIC ARMS can now sell most any resident of the U.S.A. any rifle or shotgun without first having any special permit or license. Check local laws concerning possession. No mail order. AK47 3 mags, bayonet \$325. British Mark III \$95. Commando Arms. 45 Carbine \$275. SKS w/30 rd. clip \$275. H&K M91 cal. 308, 20 rd. clip \$875. Law 12 auto shotgun \$485. Spas 12 auto/pump. 12 ga. \$485. Write or call (718) 447-5153 or (718) 351-7677, 203 Port Richmond Ave., Dept. ASG, Second Floor, Staten Island, NY 10302.

MISCELLANEOUS

FIREWORKS — Fun, safe, top quality, lowest prices, catalog \$1.00 WESTSHORE FIREWORKS, INC., Dept. ASG11, 6641 E. Dewey, Fountain, MI 49410.

EMERGENCY RETREAT? — Your own survival/vacation campsite as low as 30 cents per day. S.A.S.E. for details. P-N-W Enterprises, RD1-314, Dept. ASG, Middleborne, WV 26149.

SURPLUS BONANZAI — Buy Direct from Government. We show you how! Your area (Guaranteed!!!) Official Directory; \$3.00, Sandhill Surplus, Dept. ASG-A, Box 336, Roswell, NM 88202.

SURVIVAL HEALTH REMEDIES — Time-tested homeopathic/natural remedies work! Store eight years. Colds to injuries: Good for you! Box 138295, Dept. ASG, Chicago, IL 60613.

RUVEL & CO., INC. U.S. GOVERNMENT SURPLUS - USN Leather Flyers Jacket Type G-1 or Type A-2 USAAF Leather Pilot's Jacket Brand New Size 36 to 46 \$205.00, Size 48 & 50 \$220.00. BDU Leaf Pattern Camouflage Jackets or Pants \$26.00 XL \$29.00. BDU Desert Camouflage, City Urban Camouflage or Black, Jackets or Pants \$27.50, XL \$30.50. New M65 Army Field Jackets S, M, L, XL OD, Leaf Camouflage, Tiger Stiped, Desert Tan or Black \$47.50. New M65 Liner \$18.95. USAF MA1 Intermediate Flyers Jacket Sage Green XS to XL \$46.00. GI N3B Type Snorkel Parka Extreme Cold Weather S, M, L, XL \$105.00. U.S. Army M9A1 Gas Mask w/ Carrying Bag \$37.50. New Extra Gas Mask Filters \$8.00. Army Fatique Caps with earflaps OD or Woodland Camouflage Size 7 to 734 \$8.50. U.S. Army Current Issue Intermediate Cold Weather Sleeping New GI .45 Auto Hip Holsters Black \$19.75. Government Type Plastic Buckle \$12.00. Carbine 30 rd. Mags \$6.50 GI 30 rd. Carbine Magazine Pouch Holds 4 Magazines \$7.50. Two 15 rd. Mags & Stock Pouch \$5.25. Handguards M1 or M2 \$5.00. GI Sling & Oiler \$6.00. M5 Garrand Bayonets w/ sheath \$25.00. M14 20 rd. Mags \$11.50. M14 Cleaning Tool Set \$10.50. Carbine Cleaning set w/ case \$9.50. AR15 Cleaning Kit w/ case \$10.75. New Gi OD 10 Pocket Cartridge Belt \$17.50, Khaki \$22.00. Gl M1911 .45 Auto Mags \$7.00. AR15 30 rd. Mags \$8.95. Springfield Bolt Complete \$20.00. GI AR15 M7 Bayonet w/ sheath \$24.50. AR15 Nylon 30 rd. Ammo Pouch \$8.95. GI Angle Head Flashlights \$6.35. Army-Marine GI Compass w/ case, non-radioactive \$33.95. Campaign Hats 6-5/8 to 73/4 \$19.50. Hat cords red, blue, yellow, officers gold and black \$5.75. Complete listings found in 1988 Army-Navy Store 64 page catalog. Send \$2.00 (free with \$10.00 order). All items very good unless otherwise stated. Prices plus delivery charge and local sales tax where applica-ble. Check, MasterCard or VISA accepted. Illinois residents add 7 percent sales tax. RUVEL & CO., INC. 3037 N. Clark Street, Dept. ASG, Chicago, IL 60657; (312) 248-1922.

HAS YOUR VEHICLE BEEN TOWED —impounded, confiscated, auctioned? Most instances you can recover your vehicle and/or money plus damages with information how 90% of these actions were stopped in several states send \$20,00, TURNABOUT, Dept. ASG, P.O. Box 356, LaMont, CA 93241.

PRIVATE INVESTIGATION CATALOG —Manuals, courses, badges, I.D., Newsletter, investigative forms, equipment, certificate programs, certified missing persons investigator program, much more. Send four stamps. National Association Of Investigative Specialists, Dept. ASG, Box 33244-SV, Austin, TX 78764.

CREATE A NEW IDENTITY. Untraceable. Confidential. Fool-proof. ID20, P.O. Box 25768, Dept. ASG, St. Louis, MO. 63136.

YOU CAN FIND ANYONE! — Secretly obtain unlisted phone numbers, confidential postal and DMV records, birth/death, credit and confidential court records. Author reveals every source, method and trick known. Locate old friends, lost lovers, debtors and enemies. For profit, fun or adventure. Satisfaction Guaranteed. For your copy of YOU CAN FIND ANYONE! send \$14.95 plus \$1.50 postage. TARGET BOOKS, 407-ASG W. Santa Clara, Santa Ana, CA 92706.

INVESTIGATIVE NEWS! — America's number one, all new, information newsletter. Each issue is jam packed with information and articles on skip tracing, bounty hunting, surveilance, street survival, interrogation techniques, undercover, executive protection, terrorism, criminal investigations and civil litigation. Also included are book and product reviews, confidential reports and hard to find information. One year subscription only \$39.95 Satisfaction Guaranteed. INVESTIGATIVE NEWS, 407-SG W. Santa Clara, Santa Ana, CA 92706.

WE ARE LIVE FREE — the force for life and freedom. We believe that true freedom belongs only to those who can protect and control their own lives. We provide: Regional training activities, Monthly newsletters, Instructors certification, Mail network, Group affiliation, Radio network, Discount programs, Computer network and more. Sample newsletter and literature \$2.00, 1 year membership only \$15.00. LIVE FREE, Box 1743, Dept. ASG, Harvey, IL 60426.

TOILET, — field fold-up Sturdy, Weight 10 lbs. Assembled \$29.95 PPD Kit \$24.95 PPD, Resor, P.O. Box 1571, Dept. ASG.Odessa, TX 79760.

HIDEAWAY — CONTROLLED ACCESS, SECLUDED, SELF CONTAINED, TRI-LEVEL HOME with storage compound on 16 acres N.E. Texas. Adjacent to 30,000 acre forest. Abundant Hunting & Fishing. \$109,000. (214) 832-8240, (214) 665-8500, CARL BROWN, One Brown Acres, Dept. ASG, Nash, TX 75569.

TELEPHONE TAPS or ROOM MONITORS. —Range Unlimited. 1-800-633-TAPS. Catalog \$3.00. LIITEN, 603 Elgin, Dept. ASG, Muskogee, OK. 74401.

HIRING! — Government jobs — your area. \$15,000 - \$68,000. Call (602) 838-8885 Ext. 9879.

American Survival Guide's Classified Advertising rate is 75 cents per word, per single insertion, including the advertiser's name, address and zip code. There is no charge for the words "Dept. ASG." Minimum charge is \$11.25 for three lines. No cash-with-order or frequency discounts are allowed. All advertisers must include name, street address or post office box number, city, state and zip code number. Type or print your advertisement word for word and mail it with check or money order to American Survival Guide, Classified Advertising, 2145 W. La Palma Ave., Anaheim, CA 92801, ASG does not verify the validity of every classified advertisement published. ASG reserves the right to reject any and all advertising deemed inappropriate for the magazine.





Seattle FilmWorks has adapted Kodak's professional Motion Picture film for use in your 35mm camera. Now you can use the same film-with the same microfine grain and rich color saturation—Hollywood's top studios demand. Its wide exposure latitude is perfect for everyday shots. You can capture special effects, too. Shoot it in bright or low light—at up to 1200 ASA. What's more, it's economical. And remember, Seattle FilmWorks lets you choose prints or slides, or both, from the same roll. Try this remarkable film today!

\$2 INTRODUCTORY SPECIAL ☐ RUSH me two 20-exposure rolls of Kodak MP film for my 35mm camera. Enclosed is \$2 for a 2-roll starter pack including Eastman 5247® and 5294® 100% Satisfaction Guaranteed

| ADDRESS | | |
|---------|-------|-----|
| CITY | STATE | ZIP |

Mail to: Seattle FilmWorks, 500 3rd Ave. W. P.O. Box 34056, Seattle, WA 98124

Kodak, 5247 and 5294 are trademarks of Eastman Kodak Co sodak, 5247 and 5294 are trademarks of Eastman Kodak Co. Scattle ilmWorks is wholly separate from the manufacturer. Process ECN-II.

STATEMENT OF OWNERSHIP MANAGEMENT AND CIRCULATION

(Act of August 12, 1970: Section 3685, Title 39, United States Code 1A. Title of publication: AMERICAN SURVIVAL GUIDE MAGAZINE

- Publication No.: 07451113 Date of filing: October 10, 1988
- Frequency of issue: Monthly
- 3A. No. of issues published annually: 12 3B Annual subscription price: \$21.95.
- Complete mailing address of known office of publication: 2145 W. La. Palma Ave., Anaheim, Orange County, CA 92801-1785.
- Complete mailing address of the headquarter of the publishers: Same as item 4.

 Name and Address of: Publisher: Thomas Malma Ave., Anaheim, CA 92801-1785. Editor Palma Ave., Anaheim, CA 92801-1785.
- Owner: McMullen Publishing, Inc., 2145 W. La Palma Ave., Anah 92801-1785.

| 0. | (Section 411.3 DMM only): Has not change | | |
|-----|---|---|--|
| 10. | Extent and nature of circulation. | | |
| | | Average No. copies each issue during preceeding 12 months | Actual No. of copies of single issue published nearest to filing date |
| A. | Total No. copies printed (net press run) | 81,912 | 86,428 |
| В. | Paid Circulation 1 Sales through dealers and carriers, street vendors and counter sales | 25,435 7,258 | 25,518 7,383 |
| C. | Total paid circulation | 32,693 | 32,901 |
| D. | Free distribution by mail, carrier or other means — samples, complementary, and other free copies | 300 | 300 |
| E. | Total distribution | 32,993 | 33,201 |
| F. | Copies not distributed 1 Office use left over, unaccounted, spoiled after printing. 2 Return from news agents | 1,680 47,239 | 1,419 51,808 |
| G. | Total | 81,912 | 86,428 |
| 11. | I certify that the statements made by me (Signed) | above are correc | et and complete. |

Mail Call

Horse Packs

I am into backpacking, mostly on horseback. I would like to know if there is information on new types of saddle bags and packs. I find myself needing more space and, above all, more pockets for my equipment. I believe horses are very beneficial to our survival. They are good transportation when needed, they can serve as an alarm system and could even be used as food if necessary.

> John Wooddell Fayetteville, North Carolina

Talk to saddlery dealers and horse keepers and trainers about new saddle and pack equipment for horses and where you can find it. There are also mail order catalogs with these products in them. We agree that horses can definitely play a role in survival. See our article on survival horse breeds in the April 1988 issue.

Hazardous Materials

The first paragraph of Larry D. Weber's "Hazardous Materials" article (August 1988) brought back memories of a very similar disaster here in Mississauga, Ontario, in November 1979 causing the evacuation of the city's 250,000 residents. A freight train carrying chlorine and propane gases in tank cars derailed in the industrial section of the city. The city was virtually shut down for a week while the chemicals were cleaned up. Fortunately not one death resulted from the accident, which occurred late on a Saturday night in the industrial section of the city. Tank cars containing the deadly chlorine ruptured but the tank cars with propane exploded, thus burning off the deadly gas. This coupled with quick thinking and actions by the train's engineer reduced the extent of the disaster. The City of Mississauga was just plain lucky. It is unlikely that any amount of preparation or planning would have allowed officials to cope with a massive number of chlorine poisoning cases. Mr. Weber's suggestion for people to try to live as far away as possible from potential disasters I feel is only too well illustrated by our disaster.

> Ronald Kay Mississauga, Ontario, Canada

We agree, but in those cases where people can't or won't live far away from areas where such disasters can occur, it's best to know as much as possible about what potential hazardous materials are in or move through your area and to be prepared to deal with such situations if they occur.

Omega 10 mm Pistol

I was delighted to see the Omega 10 mm pistol on the cover of your November issue. I've been contemplating buying one for some time. In the July issue of American Rifleman Charles Petty made reference to the front and rear sights of the Omega which shook loose with firing. He said it was "disconcerting to fire a shot and notice the front sight depart for places still unknown." I was wondering if you encountered the same problem in testing the Omega. Also, the Pachmayr-type grips displayed on the Omega in your cover photo, I've never seen the Omega displayed without genuine Pachmayr wrap-around grips, including Springfield's own advertising brochure. Is Springfield cutting corners on the equipment they put on these guns?

Capt. David R. Root Enid, Oklahoma

No, we did not have any problem with the rear sight in our testing of the Omega. A Springfield Armory spokesman informs us that there was a problem with the rear sight coming off on the first models of the Omega pistol produced and this problem has been corrected. Regarding the Supreme grips on the giveaway Omega pistol tested and displayed in ASG, Springfield Armory was having trouble getting genuine Pachmayr grips for the guns and needed to ship them to dealers so Supreme grips were used until delivery of Pachmayr grips made them again available. All Omega pistols at this writing are being shipped with genuine Pachmayr grips again. Incidentally, we have guns with Pachmayr grips and we found the Supreme grips just as comfortable and effective as the Pachmayrs. If you should buy a pistol with the Supreme grips and don't like them, you can always replace them with Pachmayrs.

Food Production:

Raising and Butchering Rabbits for Organic Meat

Start with the rabbit when learning to skin and prepare meat for the dinner table...

Regie McDaniel holds the stunning mallet in one hand, and live rabbit in the other.



After cutting around the hind legs the skin is pulled down.



Making the cut for evisceration. Note that Regie's fingers are behind the knife so that he doesn't cut into the intestines



By Geeta Dardick

This article is adapted from Home Butcherings and Meat Preservation by Geeta Dardick, TAB Books, 1986. Illustrations by Sam Dardick. — The Editors.

I F you are interested in becoming more self-sufficient, you should consider raising rabbits. You can start with only a few animals, and within a year, you will have a fine supply of organic meat for your larder. However, you can't just stick a couple of bunnies in any old cage, throw in table scraps, and expect to end up with food for the family. Like any other farm animals, rabbits require precise care and attention.

Raising rabbits is a little different than raising meat chickens or wiener pigs. With chickens or pigs, most growers buy babies in the spring, feed them, and then butcher them in the fall. Your venture into rabbits will be more all-encompassing because it will involve the breeding process. Another way to think about this is that the mother rabbit will be doing most of your work for you.

You will want to start your foray into rabbit production by purchasing at least two females (does) and one male (buck). These will be your breeding stock. If all goes well, each doe will give you 32 babies per year.

Since you are raising your rabbits for meat, you will want to buy one of the fast-growing, medium sized breeds — New Zealand White, Californian, or Champagne d'Argent. You might be tempted to choose one of the giant varieties like Checkered Giant or Flemish Giant. They seem appealing because of their size, but they are actually less efficient than the medium breeds in converting feed into flesh.

Much of their seemingly larger size is big bones.

If your feed store has no breeding stock available, check with your county agricultural agent for the names of reputable breeders in your area. You will want to pick out your rabbits and check that they are well-developed and healthy. Ask to see the breeder's records. You want does that have a past history of having babies easily and taking care of them adequately.

Before you bring your rabbits home, you should have their cages ready. You'll want a hutch for each rabbit. You can buy these or build your own. They should have wire bottoms (but not chickenwire) so the droppings can fall through. Most people use all-wire cages, but you can also use some wood; in fact, if you do end up buying a giant breed, you might want some of the floor space made out of wood to protect their feet which are quite ten-

der. You can put some kind of matting to cover the wood.

Cages should measure about three feet by three feet and stand one and one-half feet high. Make the doors large enough so you can take nest boxes in and out. For giant breeds make your cages a little larger. A mature giant rabbit can weigh about 14 pounds.

Breeding Rabbits — You can start breeding does at five to seven months old. You'll breed your doe by taking her to the buck's cage and leaving her there for a minute until he breeds her. Watch to be sure. Keep a record of the breeding date. Don't bring him to her cage. She may attack him and kill him.

About 25 days after breeding, put a nesting box in the cage with your doe. The box should have a bottom, top, and sides. Make its entrance several inches above the bottom of the box so that the babies couldn't possibly fall out. Fill the box with good nesting materials, about five inches in cool weather and two inches in warm weather. The doe will mix her own fur in with the nest.

You want the doe to have her babies in the nest, so they will stay warm and not fall through the wire. Hopefully she will oblige you. She will have them somewhere between day 28 through 32. When born they are hairless, blind and deaf.

About 24 hours after birth, count her babies. Take out any deformed or dead babies, and reduce the litter to seven to nine babies. Your rabbit can feed about nine babies, but not more.

At about four weeks old, the babies will start coming out of the nest. At this point you can remove the nesting box, but still keep the babies with the doe until weaning age at eight weeks. At this age you can butcher them. They should weigh about four pounds, and dress out at two pounds.

You can keep harvesting the babies for meat up to six months old, but after ten weeks old, you'll need to house each rabbit in a separate cage. You will want to butcher all of the males, as well as any females that don't have perfect features. Save your best females to increase your breeding stock.

Feeding and Caring for Rabbits—Rabbits eat greens, grain and hay. You can use commercial feed, home-raised feed, or a combination. The feed should be about 15% protein. The simplest method is to buy a commercially pre-

RABBIT CAGE

WORM BED

WATERER

pared rabbit feed, which is a pellet with a combination of grain and hay in it. Or you can feed grain to your rabbits, supplemented with roughage cuttings. Rabbits like all the green feeds from the garden, but if you feed too much of your garden products or table wastes (which actually contain a lot of water), the rabbits may not consume enough of their other feed to make adequate weight gain. Too much wet feed also can give the rabbits diarrhea.

If you use a pelleted feed, you can keep it in front of the rabbits at all times. However, you must be watchful that your breeders do no get overweight. If they get too fat and sluggish, they may not breed. Also, the doe can actually produce too much milk which can cause breast problems.

Feedstores carry a number of different rabbit feeds. Read the labels carefully. Some feeds contain chemicals that you won't want to feed your rabbits.

Don't be shocked if you see your rabbits eating some of their soft, partially digested fecal pellets. It's simply something that rabbits like to do. The word for this is coprophagy.

Keep water in each cage at all times. If you use those upside down waterers that rabbits suck, you won't have to worry about them spilling their water.

Rabbits can take a lot of cold, but not drafts. Don't place the cages where the wind can blow through them. A man I know lost all of his rabbits from locating his cages improperly, and it happened in one night.

Overheating can also be a serious problem. Too much heat will kill rabbits equally fast. If you see they are overheating, try putting ice cubes to their ears. Or better yet, locate your hutches where your rabbits can't overheat, even in super-hot weather.

Try not to excite your rabbits. Strange noises scare them. Some growers keep

a radio playing so that the rabbits become used to a noisy environment.

If by chance your rabbit gets so excited that she doesn't care for her young, give her another chance or two to breed. If she continues letting her young die, cull her.

If you have a garden, you should consider raising earthworms right under your rabbit cages on straight rabbit manure. The earthworm-rabbit connection is a real plus for the serious self-sufficient farmer.

Butchering Rabbits — Butchering a rabbit is quite easy. Nail a board to a fence or wall at your eye level. Hammer in two #16 nails (long nails) about eight inches apart from each other... but don't hammer them in very far. You'll be hanging the rabbit from these nails after you stun it. It works best if your nails slant upward. That way the rabbit can't fall off of them.

You can keep your butchering efficient by having four containers at your side before you begin. You will need two pans of water — one for washing your hands and knife, and another for washing and cooling your rabbit. A third little dish for the heart and liver would also come in handy. The fourth pan will hold the throwaways, such as the head, intestines and blood.

There are two ways to kill a rabbit. Take your pick. You can break its neck, or you can stun it by hitting it in the head.

To break the neck of a rabbit, hold the rabbit by its back legs with one hand and by the head with your other hand. Put your thumb on the back of the rabbit's neck, just below the ears. Put your four fingers under its chin.

Now stretch the animal out. Then press down with your thumb, and at the same time raise the rabbit's head rapidly. This motion will dislocate the neck. If you did it properly, your rabbit is now unconscious.

Raising and Butchering Rabbits for Organic Meat

Mike Getz, one of my neighbors, had difficulty breaking his rabbit's neck with this technique. "I was taught the method by a fellow who has very strong arms," explained Mike. "But when I tried it, the rabbit started screaming. I don't know if you have ever heard a rabbit scream, but it is a loud, high-pitched scream that just devastates you. Apparently, I didn't have the arm strength to break its neck fast enough, before it knew what was going on."

Mike prefers to kneel with the rabbit between his legs. The rabbit sits up in its normal position, with Mike straddling it snugly. When the rabbit feels calm (and Mike feels calm), he strikes it on top of the head with a large rubber mallet. Then he hangs it up and cuts off its head.

Another method to stun a rabbit is to hold it upside down and stike it at the base of the skull.

Regie McDaniel stuns rabbits with a hammer. He holds them by the feet with his left hand and swings the hammer with his right hand. It takes less than a second.

You aren't really killing the animals with either method. You are just knocking them out. Explains Regie, "I can hit them in the head, and have their heart out before it stops beating."

Regie can butcher a rabbit from start to finish in five minutes. Such speed comes from killing 50 or 60 rabbits at a time. Reggie says that when you do that many, you get fast so you can get finished.

Immediatley after stunning the rabbit, cut off its head. You may find that it is easiest if you hang the rabbit up first, and then cut the head off. Or you can cut on a table, and then hang up the headless rabbit. In either case, cut the head off as high up as possible, right behind the ears. Regie McDaniel doesn't cut off the head until he finishes skinning, but he works very fast. If you are slow, you are better off cutting off the head and bleeding the rabbit, so that it won't have any pink taint around the joints.

Now hang up your rabbit. Make a little slit in the back legs, just above the hock. (The hock is the bend in the leg above the foot, like an ankle in reverse). Feel for the spot between the tendon and the bone, and pop your knife in there to make a convenient

little hole for hanging.

Cut the skin around each hind leg. To do this, you will run your knife in a little circle right below your nails. Cut a slit in the skin between the two hind legs. Run your knife from the inside of one leg to the inside of the other leg. Cut off the tail. Cut off the front paws.

Starting at the hind legs, carefully separate the skin from the carcass. You want to leave all fat on the carcass and not on the skin. Work your fingers between the hide and body as you pull the skin off. Basically, you can peel the skin off like a sweater.

If need be, you can run your knife between the skin and body, to help separate one from the other. In an older rabbit, this may be necessary. Remember to be careful if you plan to save the skin. You don't want to slit it.

The skin is off, and you are ready to clean your rabbit. You will be cutting the rabbit open, from a point between the two back legs, all the way down the belly.

Insert your knife between the hind legs, and cut the pelvic bone. Now slit down the belly. To make sure you don't cut up the intestines by mistake, keep your finger ahead of the knife as you slice downward. If your knife strays, it will hit your finger, and not the rabbit's bladder. Cut all the way down to the chest.

Now that the intestines are entirely exposed, pull them out by grasping the stomach with one hand. At the same time, hold the liver in place with the thumb of the other hand. You don't want to pull it out just yet. Throw the intestines and stomach away.

Now remove the liver being careful to cut off the gall bladder without breaking it. The gall bladder is the little green sack that is hooked to the liver. Throw it out.

Remove the heart, also, and save the liver and the heart in your little dish. The lungs and kidneys are still inside the carcass. Pull them out, and throw them out with the intestines and other refuse. If you can't get the kidneys out, just leave them inside.

You can now rinse off your carcass with cold water. If you want to cool it rapidly, you can leave it in cold water for 10 to 15 minutes for cooling. But don't soak it too long. Water adulterates meat. Chill in your refrigerator.

If you've butchered several rabbits, wrap each one in a heavy plastic bag, and freeze them. ●

Rabbit Recipes

BARBARA'S HASENPHEFFER

3/4 c. vinegar

3/4 c. red wine

3/4 c. water

3 medium onions, finely sliced

4 whole cloves

2 bay leaves crumbled

2 tsp. salt

1/2 tsp. tarragon

5 tsp. sugar

3/4 tsp. black pepper

1 rabbit, cut in pieces

Make a marinade from the vinegar, water, wine, onions, cloves, bay leaves, 2 tsp. salt, tarragon and pepper. Let rabbit sit 24 hours in the marinade at room temperature. Remove rabbit. Dry off rabbit and dredge pieces in salted flour. Brown in melted butter or bacon drippings. Pour marinade back over browned rabbit. Cover and cook over low heat, 45 to 60 minutes until tender. Remove rabbit. Combine 3 tb. flour and water to make a paste and blend it into gravy. Heat and stir until thickened. Serve over rice.

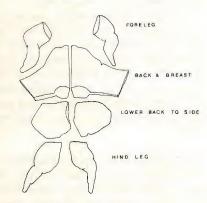
SAMS' FRIED RABBIT

Parbroil pieces of rabbit for ten minutes. Cool.

Dredge rabbit pieces in seasoned flour, then dip in eggs, and dredge again in flour or rolled cracker crumbs.

Fry in oil until golden brown on all sides. Reduce heat and cover and continue cooking 40 minutes, turning every 10 minutes or so.

Make a gravy from the pan drippings if you wish.



CUTTING THE RABBIT CARCASS

PAGER HOLSTER





TOLL-FREE

24-Hours

FITS: DAVIS DERRINGERS BAUER, BROWNING .25 AUTOS FREEDOM ARMS .22LR, 1" BARREL N. AMERICAN ARMS .22LR, 11/6"

\$17.95 plus \$1.50 S&H, or two for \$29.95 The purchaser is responsible for complying with all applicable local, state, and federal laws.

SPLIT SECOND SECURITY, INC.

P.O. BOX 16142-G, HOUSTON, TX. 77222

AD INDEX

| Atlan Formularies | 35 |
|----------------------------------|----------|
| B-Square | 66 |
| B.M.F. Activators | 75 |
| Benchmade Knife Company | |
| Blowgun World, Inc. | 68 |
| Brigade Quartermasters | 10.42 50 |
| | |
| Butokukai | |
| Cattle Baron Leather Co | |
| China Diesel Imports | |
| City Video Productions, Inc. | |
| Cutlery Shoppe | |
| Defender | 67 |
| Delta Insignia | 66 |
| Delta Press | 63 |
| Dutchman, The | 9 |
| Dynamit Nobel of America, Inc | 10 |
| Edge Company, The | 3 |
| Feather Enterprises | |
| Foothill's Fastprint Photo J.D. | |
| Great Lakes Distributing | 00 |
| Great Lakes Distributing | 51 |
| Ground Zero | 59 |
| Guardian Personal Security | 39_ |
| Gun Parts Corporation | 58 |
| I.N.C.O. | 63 |
| LRRP K-9 Services, Inc | |
| Mail Order Video | 23 |
| Manta Enterprises | 66 |
| Midwest Sport Dist | 63 |
| Misty Mountain Products | 66 |
| Nitro-Pak Storage Foods | 8 |
| Nuclear Research | 66 |
| Orpheus Industries | 63 |
| Paladin Press | 5 |
| Phoenix Systems, Inc. | 22 |
| Provisions Unlimited | |
| Quartermaster Military Equipment | 43 |
| | |
| R.P. Knives | 49 |
| Ram Line, Inc. | |
| Ready Reserve Foods | |
| Shomer-Tec | |
| Sierra Supply | |
| Smoky Mountain Knife Works | |
| Split Second Security, Inc | 75 |
| Steve Arnold's Gun Room | C/3 |
| Survival Book/Larder Book | 59 |
| Survival Center, The | 49 |
| Survival Company | |
| Survival, Inc. | |
| U.S. Cavalry | |
| | |
| Vintage Press | 08 |
| | |



(M-F, 8 am - 5 pm) (After 5 & Weekends)

ORDERS ONLY 1-800-248-5128 or 1-800-227-1617 Ext. 601



Robots Go To War

The silicon soldier will arrive, with consequences that will be profound and unpredictable...

By Richard Bocklet

ULTURE-LIKE, surveillance drones scan the terrain, spying on military movements and communications, and feeding data back to distant command posts. Then, a fleet of decoy drones beams signals to enemy radar sites drawing anti-aircraft fire and their accompanying electronic "fingerprints" for the third echelon of robot aircraft. Small and hard to detect by enemy spotters and guided by miniature on-board computers, these kamikazi vehicles then drive onto the radar and missile sites for the kill. Meanwhile, the surveillance drones provide commanders continuous close-circuit TV coverage of the ensuing attack.

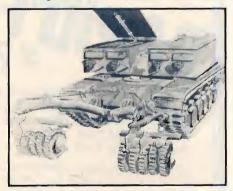
On the ground, robot minesweepers are tasked with clearing a path through enemy-armour defenses and are totally oblivious to chemically contaminated environments. For the allied advance, sense-and-destroy missiles are airdropped or fired behind enemy lines by powerful artillery pieces. These sensorfused missiles decouple and parachute down scanning for high-value targets. A tank, or armored personnel carrier spotted, they fire a deadly metal payload through the vehicle's lightly protected roof.

Now battalions of robotic vehicles including pilotless tanks, teleoperated mobile anti-armor platforms and other remotely controlled battlefield systems speed into action. Using powerful microprocessors for guidance, they are crammed with TV scanning sights, radars, infrared sensors and sophisticated listening devices allowing manned master tanks or off-site commanders to target enemy armor.

Multi-purpose wheeled vehicles are controlled by operators bedecked in helmets with stereoptic video receivers and headphones located in a mock-up of the driver's cockpit 20 miles away. With a 3-D image of the battlefield scene, a twist of their joystick sends deadly missiles into enemy tanks.

Amidst all the robotic activity, the soldier still plays a direct combat role. He's dressed in a 200-lb. exoskeleton armor suit that's resistant to .50 caliber bullet hits and immune to biological weapons' toxic clouds. The infantryman maneuvers through the battlefield with the greatest of ease with small electric motors installed in the legs for power. He directs them by fiber optic sensors on the helmet reading his brain wave commands.

Meanwhile, as the land battle wages, fleets of robot surface craft and submarines use their artificial intelligence and sophisticated sensors to do sonar



The Robotic Obstacle Breaching Assault Tank (ROBAT) is designed for mine clearing operations (U.S. Army).

surveillance, lay mines, and launch torpedoes or missiles at preprogrammed targets. In one mode, computer-controlled submersibles stealthily patrol the seas for long periods using sonar and magnetic sensors to search out enemy subs, battleships aircraft carriers or merchant vessels and automatically fire their lethal cargo into them.

As in all wars, there's violence and horrible destruction but this time with a difference. The fields of battle are cluttered with more robotic than human carnage, the metal carcasses of defeated machines in a highly surrogate war of technologists trying to outwit the scientific skills of worthy opponents.

Robert Finkelstein, president of Robotic Technology, Inc., Potomac, Maryland, and Board Member of the Association for Unmanned Systems, reported on the future impact of robots in the defense picture for the Armed Forces Journal. "Telerobots could ultimately alter military operations and force structures," he declared. "Operators can be placed far from the battlefield, even halfway around the world (via satellite relays), controlling their vehicles and weapons platforms. The unmanned vehicles could behave fearlessly and aggressively on the battlefield.

"Operators need not have the youth and strength of combat troops," he continued. "Telerobots can be operated by older men and women, or perhaps by civilians working in shifts. Vehicle distances are limited only by fuel and maintenance constraints. Shifts of alert, rested operators would be at the controls."

Robots are attractive to the military for many reasons. One is demographic: By 2000, the 18 to 24-year-old recruit pool will decrease by 20% while entry-level jobs will expand. This could mean too few soldiers to maintain defense readiness. Then too, with more complex weapons, the cost of trained, skilled



The Marine Corps has successfully tested the Airborne Remotely Operated Device (AROD). It can travel up to two miles away and can hover in 30 mph winds. It is shown here in an anti-terrorist role (USMC).

personnel zooms. Robots are economical and effective force multipliers. Lose a single piloted aircraft and it costs \$25 million — the loss of a 400-lb drone is about \$10,000. Meanwhile, machines are expendable — soldiers are not.

Robots can function in all kinds of climatic conditions, in high or low altitudes, on land, on sea, in the air, or in outer space. In nuclear, biological, chemical (NBC) contaminated or explosive environments or missions bordering on the suicidal, robots stand ready, willing and able to serve. Their endurance and strength is superb and some can lift weights five times their own weight. Hazardous work aside, robots free essential manpower to perform higher priority rather than byrote tasks.

Robotic missions abound, including surveillance and reconnaissance, defensive and offensive operations, NBC detection and monitoring, explosive ordnance disposal, repairing and maintaining equipment, fighting fires and tedious sentry duty. Forward observer for precision guided missiles, smoke laying and electronic jamming, and decoy are additional uses.

Israeli Success — Some of the most sophisticated military robots are RPVs, used by the Israelis with outstanding success in battle with their Arab adver-

saries. For example, in June 1982, the Israeli armed forces launched their long-expected attack on Palestinian strongholds in southern Lebanon, then moved northward to the Syrian-controlled Bekaa Valley. There, they faced a formidable armada of 600 Syrian tanks protected by Russian SAM-2, SAM-3 and SAM-6 surface-to-air missile batteries.

The Israelis used Scout and Mastiff RPVs (only 3.5m long, 0.94m high and a wingspan of 3.60 meters and made of fiberglass which is transparent to radar). Some electronically jammed Syrian communication systems while others decoyed their radar into identifying themselves and their anti-

aircraft batteries. Other drones alerted Israeli Air Force pilots as Mig fighters took off. Before they were barely airborne, the Israelis shot down 79 enemy planes, while losing only one, as Air Force bombers quickly destroyed the 20 SAM sites. As the scenario unfolded, RPVs relayed live-action pictures back to Israeli generals who called for additional manuevers as required.

Impressed by the Israeli lesson, the U.S. Army pumped \$900 million so far into development of its own small, propeller drone, called Aquila. Mounted on a truck, the Aquila is rail launched and recaptured by an accompanying net. It carries a TV relay camera as well as a laser target designator. Its missions include target acquisition and designation, surveillance, reconnaissance and damage assessment. It successfully completed developmental testing in mid-1987 and awaits future funding.

The Marine Corps successfully tested its electrically powered, 80-lb., 3 ft-indiameter Airborne Remotely Operated Device (AROD), resembling a small flying saucer. It can travel two miles away and hover in stable condition amidst 30 mph winds. A later model will progress to a 25 hp gasoline or dieselengined system and be used at the company or battalion level in direct support of the troops.

AROD allows the commander to see around obstacles or what's happening over the next hill for maneuver planning or target location. It can monitor for chemical or biological agents or, in an anti-armor mode, kill tanks by fir-



The U.S. Navy Control System Test Vehicle (CSTV) is a 1/12 scale autonomous submarine for hydrodynamics and controls research (U.S. Navy).

Robots Go To War



ing hypervelocity rockets into their most vulnerable upper areas.

As AROD bobs up and down terrain for concealment, it's guided by a thin fiber optic cable link that transmits live images from its on-board camera to a heads up display on the controller's face plate. Like a video arcade game, the craft's movement is directed by the operator's joystick.

Currently, the Army Robotic Combat Vehicle Program at Ft. Knox, Kentucky, is developing a generic chassis to accommodate a variety of modules depending on mission, like direct fire, intelligence-gathering, NBC monitoring, obstacle breaching or mine emplacement. One such vehicle for fielding in

The Pioneer RPV system, deployed on the USS IOWA is a drone that is ship launched and net retrieved. With onboard computer and day and night TV camera for area reconnaissance, it has a range of 110 miles (U.S. Navy).

the 1990s, the Teleoperated Vehicle (TOV), was tested both on the Army's Fast Attack Vehicle — a militarized dune-buggy — and the larger High Mobility Multi-Purpose Wheeled Vehicle the successor to the jeep. Linked by 18 miles of fiber optic cable, the TOV uses its cameras, electronic sensors, laser designator and rangefinder to supply on-the-spot intelligence; its MK-19 grenade launcher or M-60 machinegun for area suppression; or heavy TOW I missile launcher as a tank killer.

Robotic underwater vehicles currently perform such jobs as repair, salvage, material-handling and exploration on the ocean floor for both mili-



The U.S. Army is developing the Aquila, a drone that is rail launched from a truck. It carries a TV camera and a laser designator (U.S. Army).

tary and commercial purposes. Most are teleoperated vehicles tethered to a surface command vessel by a wire or fiber optic control link, some are radiocontrolled, with a few autonomous ones now in research and development.

In 1975, the Navy developed the Cable Controlled Underwater Recovery Vehicle (CURV) which recovered hundreds of unexploded torpedoes, bombs and other objects and surveyed radioactive dump sites. The Deep Drone helped pull out a downed Coast Guard cutter and a Navy A-7 aircraft. The small, light Submersible, Activated, Teleoperator (SCAT) replaced divers in observation and surveillance missions. Over the past decade, such tethered robots also performed minedestruction tasks.

The Navy is conducting research on a robot sub for 21st-century warfare, called Long Range Autonomous Submersible (LRAS), to deliver payloads of 50 tons as far as 10,000 miles away. It could be tasked to monitor traffic at strategic check points, intercept radar communications, and reconnoiter mined areas inaccessible to standard subs. LRAS could lay mines, launch missiles at pre-programmed targets, or be set into attack mode by enemy vessels' acoustic signatures. Ultimately, coordination between such vessels could produce fleets of submersible robots posing highly lethal oceanic threats.

Finally, robotics is needed for the battle for space. At least three-quarters of all hardware circling earth has a military function — the vast majority unmanned. Space-based robots provide much valued military intelligence. A 1984 NASA study proposed extensive use of advanced automation and robotics for space station and manned program support.

In sum, technology is upon us and the battlefield will be revolutionized by it. In one sense, decreasing human risk and casualties, robots make war more feasible. In another, they insure combatants aren't denied the battlefield by an enemy using biological, chemical or precision "brilliant" munitions which are clearly possible in upcoming conflicts. Truely, unmanned systems may be the only answer to survivability on future fields of engagement. A major power oblivious to this proceeds at its own peril. The robots are coming.

Professional Locksmithing Tools

LOCKAID

Specifically designed to pick tumbler locks. Designed over thirty years ago to aid law enforcement agencies. Consists of tension wrench, three needles and Lockald "Gun." Prices include a copy of the book "Lock Picking Simplified." Lockaid \$59.95

PIX MODEL 13

This deluxe yet compact kit features 11 of the most commonly used tools. Comes in a slim cowhide leather case for discreet undercover operatives. As a special bonus, a 5 piece set of warded picks ls included. A 16 piece set total. Also included, a copy of "Lockpicking Simplified." Receive

all this at a Low price of: Pix 13 \$39.95



PIX-QUICK MODEL B

picking Simplified." Model A \$19.95

PIX-QUICK

MODEL A

These high quality picks

feature new lighter non-break

able plastic color coded handles. Picks are of .022 blue spring steel.

Same color coded set as Model A. Only with deluxe 13 pieces. Price includes tension wrench and book. Model B \$27.95

to perfection. Eight piece set comes with handy see

through case with two extra pockets and a copy of "Lock-

PIX-EZ All-In-One Pick-Set

100% American Madel As convenient to carry and use as a pocket knife!

Only 4 inches long, half inch square, weighs under five ounces, works fast and opens pin and water tumbler locks quickly, with very little effort. Six tempered spring steel picks, tension wrench. \$34.95

WKS PICKS

Made of the finest blue tempered spring steel this 5 piece padlock pick-set is a must in every lock-



smiths' tool box. This set will pick open most warded padlock made today.

MONTHLY SPECIAL

Receive a combination set, includes Pix Quick Model A, Double sided Disk tumbler Picks, Sesame Decoder and a schlage Wafer.

An \$87.80 Value at a low price of \$59.95.

Lockpicking Simplified Complete Guide to Lockpicking Improvised Lock Picks Tubular Locks Lockout and forced entry

\$9.00

Safe & Valut manipulation How to Pick Pins & Wafers Combination Locks Keys by Impressioning

\$9.95

\$6.00



KEY RING PICK SET



ESP-13 This handy new pick set is the most popular set among professional locksmiths today. This kit consists of 12 diffe ent tools housed in a handsome black leather case designed for a shirt pocket. Included in the price, you receive a 5 plece warded key set and a copy of "Lockpicking Simplified." 17 plece set total.

ESP-13 \$42.95

This unique design is ideal when low profile is required or to keep on your keyring for emergencies. Contains a tension wrench, three picks and the "Key Pick." Key Ring Pick Set \$24.95

DOUBLE SIDED DISK TUMBLER PICKS

Set of 4 picks designed to be used on the most popular double-sided disc tumbler, showcase, cam and padlocks.

MINI PICK TUBULAR

The most effective tubular pick on the market, unlike the larger picks with long

handles or screwdriver handles. The longer the tool, the more presswer needed which causes easy breakage. The advantage of the Mini Pick is it is so short, you only use your thumb and index finger. With a little practice this tool will open a tubular lock in less than a minute. A. Your Choice: (1) Center (2) Offset left (3) Offset right; B. "Segal" 8 pin tubular; C. 5-pin Tubular; D. 6-pin Tubular; E. 8-Pin Ace.

SESAMEE DECODER

This tool was designed to decode the exact combination of a sesamee padlock without damaging the lock. Detailed



\$17.95

SCHLAGE WAFER

The most fantastic tool you will ever use. This set consists of two base keys and pick. Complete instruc tions included.



LOCKSMITTING

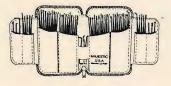


Shirt Pocket Size, Top Grain Cowhide Leather, Zippered Case, has 16 Picks, Tension Wrenchs and Broken Key Extractor \$49.95

MD32

Hip Pocket Size, Top Grain Cowhide Leather Zippered Case. Tension Wrenchs Broken Key \$59.95





MD60

Top Grain Cowhide Leather, Zippered Case, has 60 picks, Tension Wrenchs, Broken Key Extractor and Warded Mas

> Send to Steve Arnolds **Gun Room** P.H. \$3.00 Overseas \$6.00

Orders over \$100 Free Shipping Catalog \$2.00 Free with order. Sorry, no credit card orders

P.O. Box 68, Dept. 32-1, Dexter, OR 97431 (503) 726-6360

